Transformational Government Framework Primer Version 1.0

Working Draft 03~~2~~ – approved by TC for publication as a Committee Note Draft

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Abstract:
This Primer is intended to serve as an introduction to and detailed overview of the "Transformational Government Framework" (TGF) - a practical "how to" standard for the design and implementation of an effective program of technology-enabled change at national, state or local government level.

It also covers the Framework's rationale, purpose, scope, and intended use.

The Framework is a managed process of ICT-enabled change in the public sector, which puts the needs of citizens and businesses at the heart of that process and which achieves significant and transformational impacts on the efficiency and effectiveness of government.

The Primer is in three main parts:
- Part I, including an **Introduction** and **Overview**, sets out the context in which the TGF has been produced, its purpose, and the principal users at whom the Framework is aimed.
- Part II describes the **Transformational Government Framework** itself, including the conformance criteria by which users of the Framework may determine if they are conformant.
- Part III provides a set of **Guidance Notes** providing further information to users of the TGF on how they can implement it in practice.

Status:
This OASIS TC Working Draft (WD) is a preliminary version of a Work Product produced by one or more TC Members that has not yet been voted on by the TC

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and approved as a Committee Draft (Committee Specification Draft or a Committee Note Draft). See under 'procedure' below for next steps.

Technical Committee members should send comments on this draft to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=tgf.

Procedure

The OASIS document Approval Process begins officially with a TC vote to approve a WD as a Committee Draft. The TC may at any stage during development of a Work Product approve a Working Draft as a Committee Draft; approval of a draft at CD level requires a Full Majority Vote of the TC. The TC may approve a Working Draft, revise it, and re-approve it any number of times as a Committee Draft.

Comment [PFB1]: URL corrected

Comment [PFB2]: Issue 17 - closed

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1 Disclaimer

The Committee will be developing OASIS 'Standards Track' deliverables in parallel to the current document and some material that is currently included here will in time and once work has stabilised be included in those deliverables and thence be removed from this work.

Comment [PFB3]: Re-ordered (JB)

This is a preliminary draft of what is intended to be produced as an OASIS 'Committee Note'. At this early stage, and given the volume of initial contributions to the Committee's work, this draft captures a complete overview of the work to develop the Transformational Government Framework. As such it currently contains sections and content that will not be appropriate to the Committee Note once approved.

The Committee will be developing OASIS 'Standards Track' deliverables in parallel and some material that is currently included here will in time and once work has stabilised be included in those deliverables and thence be removed from this work.

Part I: Introduction to the Framework

Part I covers:

- The **context** and historical background for Transformational Government;
- The **definition** of Transformational Government in this context;
- The **purpose** of the Transformational Government Framework (TGF);
- The **audience**, intended primary and secondary users, of the Framework;
- An **overview** with top-level description of the key components of the TGF with context on why each is important.

Context

All around the world, governments at national, state, and local levels face huge pressure to do "more with less". Whether their desire is: to raise educational standards to meet the needs of a global knowledge economy; to help our economies adjust to financial upheaval; to lift the world out of poverty when more than a billion people still live on less than a dollar a day; to facilitate the transition to a sustainable, inclusive, low-carbon society; to reduce taxation; or to cut back on public administration; every government faces the challenge of achieving their policy goalsand to achieve all this in a climate of increasing public expenditure restrictions.

Comment [PFB4]: Issue 37 - closed

Responding effectively to these challenges will mean that governments need to deliver change which is transformational rather than incremental.

During much of the last two decades, technology was heralded as providing the key to deliver these transformations. Now that virtually every government is an "e-Government" - with websites, e-services and e-Government strategies proliferating around the world, even in the least economically developed countries - it is now clear that Information and Communication Technologies (ICT) are no "silver bullet". The reality of many countries' experience of e-Government has instead been duplication of ICT expenditure, wasted resources, no critical mass of users for online services, and limited impact on core public policy objectives.

An increasing number of governments and institutions are now starting to address the much broader and more complex set of cultural and organizational changes which are needed if ICT is to deliver significant benefits in the public sector. Countries such as the UK, Canada and Australia have all recently published strategies which shift decisively away from "e-Government" towards a much more radical focus on transforming the whole relationship between the public sector and users of public services. In the same vein, the European Commission has updated and published its 'European Interoperability Framework' (EIF)[1] and several US agencies are looking to update and consolidate the 'Federal Enterprise Architecture' (FEA)[2] into a new 'Unified Government Enterprise Architecture Framework' (UGEAF).

Comment [PFB5]: Issue 4 - closed

We call this process: **Transformational Government**

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[1] European Interoperability Framework (EIF) for European public services, see
http://ec.europa.eu/isa/strategy/doc/annex_ii_eif_en.pdf

[2] Federal Enterprise Architecture, see http://www.whitehouse.gov/omb/e-gov/fea/

48 ## Defining Transformational Government

49 The definition of Transformational Government used here and in the Framework is

50 **Transformational Government**

51 *A managed process of ICT-enabled change in the public sector, which puts the needs*
52 *of citizens and businesses at the heart of that process and which achieves significant*
53 *and transformational impacts on the efficiency and effectiveness of government.*

54 This definition deliberately avoids describing some perfect "end-state" for government. That is not
55 the intent of the Transformational Government Framework. All governments are different: the
56 historical, cultural, political, economic, social and demographic context within which each
57 government operates is different, as is the legacy of business processes and technology
58 implementation from which it starts. So the Transformational Government Framework is not a "one-
59 size-fits-all" prescription for what a government should look like in future.

60 Rather, the focus is on the *process* of transformation: how a government can build a new way of
61 working which enables it rapidly and efficiently to adapt to changing citizen needs and emerging
62 political and market priorities. In the words of one of the earliest governments to commit to a
63 transformational approach: "…. *the vision is not just about transforming government through*
64 *technology. It is also about making government transformational through the use of technology"*[3],

65 A full understanding of this definition of Transformational Government can also be assisted by
66 focusing on the four major ways in which Transformational Government programs differ from
67 traditional e-Government programs:
68 • They take a whole-of-government view of the relationship between the public sector and the
69   citizen or business user
70 • They include initiatives to e-enable the frontline of public services: that is, staff involved in direct
71   personal delivery of services such as education and healthcare - rather than just looking at
72   transactional services which can be e-enabled on an end-to-end basis
73 • They take a whole-of-government view of the most efficient way of managing the cost base of
74   government
75 • They focus on the "citizen" not the "customer". That is, they seek to engage with citizens as
76   owners of and participants in the creation of public services, not as passive recipients of services.

77 Each of these defining aspects of Transformational Government is explored in more detail below.

78 ### *Transforming services around the citizen and business user*

79 Most governments are structured around a set of vertically-integrated silos or stovepipes - agencies,
80 departments, ministries. By and large, it is these silos which the Governments of developed countries
81 have spent billions of dollars "e-enabling" since the 1990s. However, this is an ICT investment
82 strategy which is fundamentally not citizen-focused, because the needs of citizens, businesses and
83 others cut across the organisational structures and hierarchies of government. It has inevitably
84 resulted in low levels of take-up for e-services. Governments in developed countries are now
85 grapping with the legacy of thousands of fragmented, silo-focused websites: more than 270,000 in

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[3] See the UK Government's white paper "Transformational Government – enabled by technology", Cabinet Office, 2005

86 the US public sector, 9,000 in Germany, and 3,000 in the UK. An increasing number of governments
87 are now seeking to make a fundamental strategic shift, towards a holistic, citizen-centred approach,
88 driven at the whole-of-government level.

89 This shift includes, in leading countries, a move to a "one-stop" citizen-centric service delivered over
90 multiple channels.

e-Enabling the frontline

92 Traditional e-Government has focused on e-enabling transactional services and providing online
93 content. The great majority of public sector staff and expenditure is not however involved in such
94 services, but rather in "front line" delivery: teachers, healthcare workers, police, court officials,
95 emergency response teams, etc. Leading governments are beginning to understand how the work of
96 such front line staff can be transformed through the use of real-time knowledge management and
97 mobile workflow applications.

Empowering the citizen

99   Citizens' experience of new technologies is shaped by the best that the private sector has to offer
100 globally and - increasingly - through the ability to co-create content and services as individuals or in
101 peer-to-peer networks. They will demand ever greater interactivity and ownership in their
102 relationship with public services. Transformational Government programs embrace this. Where
103 traditional e-Government programs focused on the user as "the customer", Transformational
104 Government enhances the relationship between government and the citizen on a richer, more
105 reciprocated, and more empowering basis.

Cross-government efficiency

107 The silo-based approach to ICT investment typical of much e-Government has not only resulted in
108 "un-citizen-centric" services (as discussed above), but also in duplication and inefficiency.
109 Governments have "reinvented the wheel" in ICT terms - over and over again - with different
110 agencies each:
111 • maintaining their own databases, even for universal data sets such as citizen identity, addresses
112   and so forth;
113 • building bespoke applications for e-service functions common to all or many agencies (such as
114   payments in and out, eligibility, notification, and authentication), as well as for common business
115   processes such as HR and Financial Management; and
116 • doing so in ways which not only duplicate expenditure, but which also will not inter-operate with
117   other agencies - making it more difficult and expensive to move towards inter-agency
118   collaboration in future.

119 A key focus of Transformational Government is therefore to move towards a service-oriented and
120 building-block approach to ICT and back-office service architecture across all parts of government -
121 reaping efficiency gains while at the same time enabling better, more citizen-focused service
122 delivery. As "cloud computing" gains traction and momentum, this approach opens up even greater
123 scope to achieve large-scale efficiency savings while simultaneously improving organizational agility.

Purpose of the Transformational Government Framework

Delivering this degree of change is not straight-forward for government. Indeed, government faces unique challenges in delivering transformational change, notably:

- the unparalleled breadth and depth of its service offering;
- the fact that it provides a universal service, engaging with the whole population rather than picking and choosing its customers;
- structures, governance, funding & culture which are all organized around specific business functions, not around meeting citizen needs in a holistic way.

The time is now right to set out a clear standardized framework within which governments can overcome these challenges to deliver genuinely transformational ICT-enabled change in the public sector. Against the background, the purpose of the Transformational Government Framework is

Transformational Government Framework: purpose

In the increasingly common situation of governments being expected to deliver better and more services for less cost whilst maintaining high-level oversight and governance, the Transformational Government Framework provides a framework for designing and delivering an effective program of technology-enabled change at all levels of government. ~~To distil emerging global best practices into a practical "how to" standard for design and implementation of an effective Transformational Government program.~~

Comment [PFB6]: Issue 38 - closed

Target audience for the Transformational Government Framework

The Transformational Government Framework (TGF) is intended primarily to meet the needs of:

- Political and administrative leaders responsible for shaping public sector reform and e-Government strategies and policies (at national, state/regional and city/local levels);
- Senior executives in industry who wish to partner with and assist governments in the transformation of public services and to ensure that the technologies and services which the private sector provides can have optimum impact in terms of meeting public policy objectives
- Service and technology solution providers to the public sector.

Secondary audiences for the Transformational Government Framework include:

- Leaders of international organisations working to improve public sector delivery, whether at a global level (e.g. World Bank, United Nations) or a regional one (e.g. European Commission, ASEAN[4], IADB[5])
- Professional bodies that support industry sectors by the development and maintenance of common practices, protocols, processes and standards to facilitate the production and operation of services and systems within the sector, where the sector needs to interact with government processes and systems.
- Academic and other researchers working in the field of public sector reform.
- Civil society institutions engaged in debate on how technology can better enable service transformation.

Comment [PFB7]: Acronyms explained (JB)

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[4] The Association of Southeast Asian Nations

[5] The Inter-American Development Bank

Overview of the Transformational Government Framework

There are four main components to the Framework:

- Guiding Principles
- Critical Success Factors
- Delivery Frameworks and
- A Benefit Realisation Framework

Component 1: Guiding Principles for Transformation

As discussed above, a "one-size-fits-all" approach to public sector reform does not work. Nevertheless, there are some guiding principles which 10-15 years of experience with e-enabled government around the world suggests are universal. They are based on the experience of many OASIS member organizations working with governments of all kinds, all around the world, and they form the heart of the Framework.

In the Transformational Government Framework, we use the term "principle" to mean an enduring statement of values which can used on a consistent basis to steer business decision making over the long term.

The principles used in the TGF are detailed in Part II below.

Component 2: Critical Success Factors

Programs and projects which seek to deliver Transformational Government face significant risks to successful delivery. Typically, these risks are not related to the technology itself – which is largely mature and proven – but rather to business and cultural changes. Such changes are needed within government to deliver the business management, customer management and channel management transformations described in Component 3 of the TGF.

However, there is now an increasing body of research which seeks to understand why some ICT-enabled transformation programs succeed and why others fail. The TGF therefore includes nine Critical Success Factors that reflect and respond to the findings of such research, validated with OASIS members around the world. These Critical Success Factors need to be taken on board by any government seeking to develop and deliver an effective Transformational Government program.

Component 3: Service Delivery Processes

The TGF includes four major delivery processes within government, all of which need refocusing in a citizen-centric way in order to deliver genuinely transformational impact:

- business management,
- customer management,
- channel management, and
- technology management based on ~~service-oriented~~ the principles of service-oriented architecture.

Comment [PFB8]: Issue 18 - closed

198 Part II of the Primer below describes frameworks for each of these areas, and Part III gives further
199 guidance on how to implement them.

Component 4: Benefit Realisation Framework

201 The Benefit Realisation Framework is needed to ensure that the Transformation Government
202 program ultimately delivers all of its intended benefits and impacts in practice. Logically, the design
203 and delivery of a Benefit Realisation Strategy is a part of the Business Management task, and is a
204 core responsibility for the Transformational Government Leadership and the collaborative
205 stakeholder governance model described in the TGF Business Management Framework. It is of such
206 vital importance however that it is highlighted as a distinct component of the overall Framework.

207 ICT projects in government (and indeed in the private sector) do not automatically deliver benefits.
208 Governments historically have fallen into two pitfalls which have hindered full benefit realisation:
209 • **Failure to pro-actively manage the downstream benefits after an individual ICT project has**
210 **been completed.** Often, ICT projects are seen as "completed" once the technical
211 implementation is initially operational. In order to reap the full projected benefits (efficiency
212 savings, customer service improvements etc.), on-going management is essential, often involving
213 significant organizational and cultural changes. A study for the European Commission[6] calculated
214 that, as a rule of thumb, organizational change accounts for 55% of the full costs of
215 e-Government projects in Europe, while ICT only accounts for 45%. Yet these organisational
216 change costs are often not fully factored in or delivered, resulting in a failure to maximize the
217 potential benefits of the ICT investments.
218 • **Failure at a whole-of-Government level to undertake the restructuring of the public labour**
219 **market to take advantage of new efficiencies.** Effective delivery of e-Government services –
220 both externally in service delivery to citizens and businesses and internally in modernising the
221 operations of government – opens up the potential to reduce significantly the cost of
222 government. As the cost of delivering government services falls, so governments need to plan
223 and implement the necessary restructuring of the public sector labour market to realize
224 efficiency benefits in the traditional paper-based channels. These efficiency savings can then
225 either be returned to the tax payer in the form of lower taxes, or recycled into priority front-line
226 public services such as health and education. A study by the OECD in 2006[7] showed that this
227 "whole-of-government" approach to efficiency savings had until that point been a feature of
228 only a few countries, notably Canada, the UK and Finland. Increasingly though, financial
229 pressures are forcing governments to focus on this issue.

230 The Transformational Government Framework does not seek to specify in detail what benefits and
231 impacts a Transformational Government program should seek to achieve – that is a matter for each
232 individual government. However, the TGF does set out a best practice approach to benefit
233 realisation.

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[6] Source: e-Government Economics Project

[7] IT Outlook 2006, OECD

Part II: The Transformational Government Framework

In the increasingly common situation of governments being expected to deliver better and more services for less cost whilst maintaining high-level oversight and governance, the Transformational Government Framework provides a framework for designing and delivering an effective program of technology-enabled change at all levels of government.

> **Comment [PFB9]:** Issue 38 - closed

The Transformational Government Framework can be seen schematically below, made up of four high-level components:

> **Comment [PFB10]:** Updated CSF labels
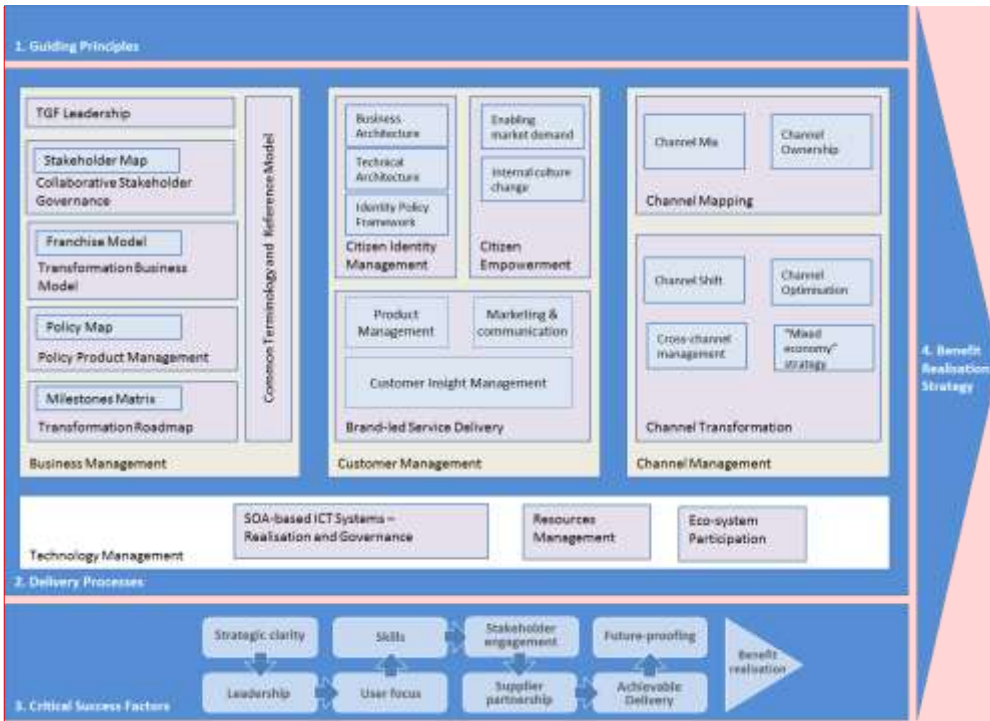
> **Comment [PFB11]:** Issue 14 - closed

Figure 1: *The overall framework*

Each of these components is described in more detail below.

244 Component 1: Guiding Principles

245 The TGF Guiding Principles are set out below, and must be used by any Transformational
246 Government program conforming to the TGF.

247 Develop a detailed and segmented understanding of your citizen and
248 business customers

249 • Own the customer at the whole-of-government level
250 • Don't assume you know what users of your services think - research, research, research
251 • Invest in developing a real-time, event-level understanding of citizen and business interactions
252   with government

253 Build services around customer needs, not organisational structure

254 • Provide people with one place to access government, built around their needs (such as
255   accessibility)
256 • Don't try to restructure Government to do this - build "customer franchises" which sit within the
257   existing structure of government and act as change agents
258 • Deliver services across multiple channels - but use Service-Oriented Architecture (SOA) principles
259   to join it all up, reduce infrastructure duplication, and to encourage customers into lower cost
260   channels where possible
261 • Don't spend money on technology before addressing organisational and business change
262 • Don't reinvent wheels - build a cross-government strategy for common citizen data sets (e.g.
263   name, address) and common citizen applications (e.g. authentication, payments, notifications)

264 Citizen Service transformation is done with citizens, not to them

265 • Engage citizens directly in service design and delivery
266 • Give citizens the technology tools that enable them to create public value themselves
267 • Give citizens ownership and control of their personal data - and make all non-personal
268   government data freely open for reuse and innovation by citizens and third parties

269 Grow the market

270 • Ensure that your service transformation plans are integrated with an effective digital inclusion
271   strategy to build access to and demand for e-services across society
272 • Recognise that other market players (in the private, voluntary and community sectors) will have
273   a significant influence on citizen attitudes and behaviour - so build partnerships which enable
274   the market and others to work with you to deliver your jointly-owned objectives.

> **Comment [PFB12]:** Issue 5 - closed

275 ## Manage and measure these nine critical success factors:

276

277 **Figure 2:** *The nine Critical Success Factors*

278 These nine factors are covered in Component 2 of the TGF.

279 # Component 2: Critical Success Factors

280 Conformant Transformational Government programs manage and measure these Critical Success
281 Factors throughout the life of the program.

282 ## Strategic Clarity

283 • **All-of-Government view:** Transformational government cannot be pursued on a project-by-
284 project or agency-specific basis but requires a whole-of-government view, connecting up
285 relevant activities in different agencies at different levels of government within and between
286 countries.
287 • **Clear vision:** all program stakeholders have a common, agreed and comprehensive view of what
288 the program is seeking to achieve. In particular, we do not spend money on technology before
289 identifying the key organizational and business changes needed to deliver our vision.
290 • **Strong business case:** we know what outcomes we want to achieve, have base-lined where we
291 are now, and know how we will measure success.
292 • **Focus on results:** although we have a vision of where we want to go, and a set of principles by
293 which we will move forwards, we do not over-plan. Instead, our strategy focuses on taking
294 concrete, practical steps in the short to medium term, rather than continually describing the
295 long-term vision.

296 ## Leadership

297 • **Sustained support:** political leaders and senior management are committed to the program for
298 the long term. This is particularly relevant given the realities of changing political leadership and
299 underlines the need for continuity across those changes.
300 • **Leadership skills:** our program leaders have the skills needed to drive ICT-enabled business
301 transformation, and have access to external support
302 • **Collaborative governance:** leaders from all parts of our and other organizations involved in the
303 program are motivated for it to succeed, and are engaged in clear and collaborative governance
304 mechanisms to manage any risks and issues.

User focus

- **A holistic view of the customer:** we understand who the customers for our services are - not just for individual services - but across the Government as a whole. We know our customers, both internal and external, are different - and understand their needs on a segmented basis.
- **Citizen-centric delivery:** citizens can access all our services through a "one-stop" service. This is available over multiple channels and that respond to different needs, but we use web-based services to join it all up and reduce infrastructure duplication, and we encourage customers into lower cost channels where possible and compatible with citizen needs (such as accessibility).
- **Citizen empowerment:** we engage citizens directly in service design and delivery, and provide them with technology tools that enable them to create public value themselves.

Comment [PFB14]: Issue 15 - closed

Stakeholder engagement

- **Stakeholder communication:** all our stakeholders - users, suppliers, delivery partners elsewhere in the public, private and voluntary sector, politicians, the media, etc. - have a clear understanding of our program and how they can engage with it.
- **Cross-sectoral partnership:** other market players (in the private, voluntary and community sectors) often have much greater influence on citizen attitudes and behaviour than government - so our strategy aims to build partnerships which enable the market to deliver our objectives.

Skills

- **Skills mapping:** we know that the mix of business change, product and marketing management, program management, and technology skills needed to deliver transformational change does not already exist in our organisation. We have mapped out the skills we need, and have a clear strategy for acquiring and maintaining them.
- **Skills integration:** we have effective mechanisms in place to maximize value from the skills available in all parts of our delivery team, bringing together internal and external skills into an integrated team.

Supplier Partnership

- **Smart supplier selection:** we select suppliers based on long-term value for money rather than price, and in particular based on our degree of confidence that the chosen suppliers will secure delivery of the expected business benefits.
- **Supplier integration:** we will manage the relationship with strategic suppliers at top management level, and ensure effective client/supplier integration into an effective program delivery team with shared management information systems.

Future-proofing

- **Interoperability:** Preference is given toWherever possible we will use interoperable, open standards which are well supported in the market-place.
- **Web-centric delivery:** we will use SOA principles in order to support all of our customer interactions, from face-to-face interactions by frontline staff to online self-service interactions

Comment [PFB15]: Issue 32 - closed

342 • **Agility:** we will deploy technology using common building blocks which can be re-used to enable
343 flexible and adaptive use of technology to react quickly to changing customer needs and
344 demands.
345 • **Shared services:** key building blocks will be managed as government-wide resources - in
346 particular common data sets (e.g. name, address); common citizen applications (e.g.
347 authentication, payments, notifications); and core ICT infrastructure.

Achievable Delivery

349 • **Phased implementation:** we will avoid a "big bang" approach to implementation, reliant on
350 significant levels of simultaneous technological and organizational change. Instead, we will
351 develop a phased delivery roadmap which:
352 – works with citizens and businesses to identify a set of services which will bring quick user
353 value, in order to start building a user base
354 – prioritise those services which can be delivered quickly, at low cost, and low risk using
355 standard (rather than bespoke) solutions
356 – works first with early adopters within the Government organisation to create exemplars and
357 internal champions for change
358 – learns from experience, and then drives forward longer term transformations.
359 • **Continuous improvement:** we expect not to get everything right first time, but have systems
360 which enable us to understand the current position, plan, move quickly, and learn from
361 experience
362 • **Risk management:** we need clarity and insight into the consequences of transformation and
363 mechanisms to assess risk and handle monitoring, recovery and roll-back

Benefit Realization

365 • **Benefit realisation strategy:** we have a clear strategy to ensure that all the intended benefits
366 from our Transformation Program are delivered in practice, built around the three pillars of
367 benefit mapping, benefit tracking and benefit delivery.

Component 3: Delivery Processes

369 Delivering the principles outlined in Component 1, in line with the Critical Success Factors detailed in
370 Component 2, involves re-inventing every stage of the service delivery process. The Transformational
371 Government Framework identifies four main **delivery processes**, each of which must be managed in
372 a government-wide and citizen-centric way in order to deliver effective transformation:
373 • Business Management
374 • Customer Management
375 • Channel Management
376 • Technology Management

377 A high-level map of these delivery processes and how their constituent elements interact is
378 illustrated in summary below. The following sections then look in more detail at each of the four

379 delivery processes, setting out the best practices which should be followed in order to ensure
380 conformance with the Transformational Government Framework.

381

382 **Figure 3:** *Relationships between the four Delivery Processes for Transformational Government*

383

Business Management Framework

The Transformational Government Framework identifies six key aspects of business management which must be tackled at the whole-of-government level:
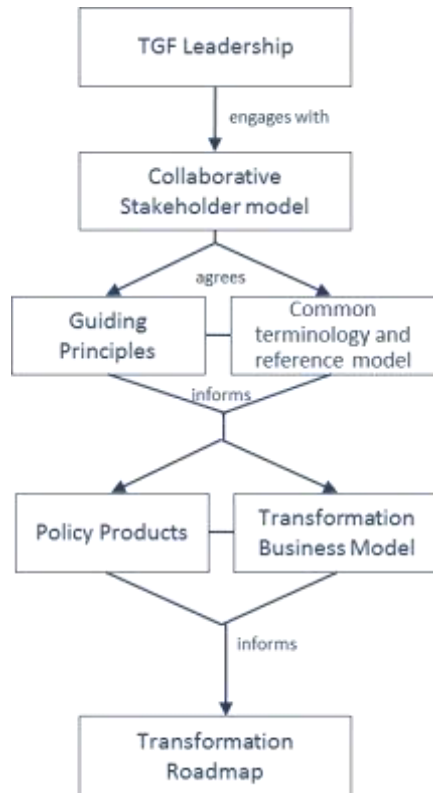
Figure 4: *Overview of the Business Management Framework*

- **Transformational Government leadership:** the key people and governance structures needed to develop and implement a Transformational Government program;
- A **collaborative Stakeholder Governance Model:** the process by which all key stakeholders are identified, engaged and buy-in to the transformation program;
- A **common terminology and Reference Model:** ensuring that all stakeholders have a clear, consistent and common understanding of the key concepts involved in Transformational Government; how these concepts relate to each other; how they can be formally modelled; and how such models can be leveraged and integrated into new and existing information architectures;
- A **Transformation Business Model:** a new virtual business layer within government, focused round the needs of citizens and businesses (the "Franchise Marketplace"), which enables the existing silo-based structure of government to collaborate effectively in understanding and meeting user needs;

402 • The **development and management of Policy Products:** these documents formally define
403   government-wide goals for achieving government transformation and thus ~~that~~ constitute the
404   documented commitment of any conformant agency to the transformational process ~~of any~~
405   ~~conformant agency~~;

406 • A **Transformation Delivery Roadmap:** giving a four to five year view of how the program will be
407   delivered, with explicit recognition of priorities and trade-offs between different elements of the
408   program.

Any conformant implementation of the TGF Business Management Framework:
MUST have **Leadership** which involves:
− Clear accountability at both the political and administrative levels
− Deployment of formal program management disciplines
− A clearly identified mix of leadership skills
− Engagement of a broad-based leadership team across the wider government.
MUST have a **Collaborative Stakeholder Governance Model**
MUST have an agreed and **shared terminology and reference model**
MUST have a **Transformation Business Model**
SHOULD use the **Franchise Marketplace Model**
MUST use the **Policy Product Map** to identify all necessary Policy Products
MUST have a phased **Transformation Roadmap**

409 Further guidance on how to implement this process is given in Part III (a) of the Primer.

410

Customer Management Framework

There are three key parts to the TGF Customer Management Framework:

- **Brand-led Service Delivery**: a user-focused framework for ensuring that:
  - Detailed *insight* is gathered into citizen and business needs
  - This insight informs a ***brand-led product management process*** covering all stages of government service design and delivery
  - The brand values for Transformational Government then drive all aspects of ***marketing and communications*** for government services;

- **Identity Management**[8]: the business architecture, technical architecture, and citizen-centric identity model needed to enable secure and joined-up services which citizens and businesses will trust and engage with; and

- **Citizen Empowerment**: the internal cultural changes and external market-enabling actions which enable governments to engage with citizens and businesses as active co-creators of public services, rather than their passive recipients.

Comment [PFB17]: Issue 33 – closed

Comment [PFB18]: Issue 7 – closed
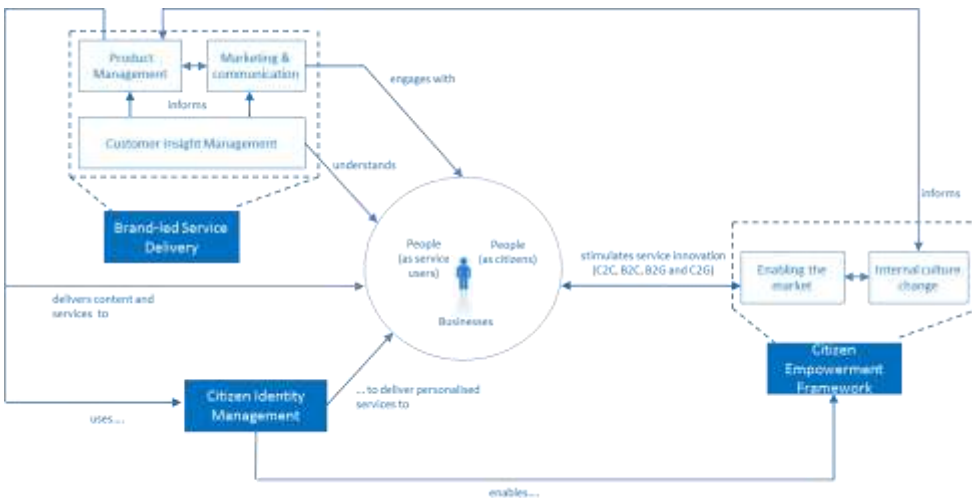
Figure 5: *Overview of the Customer Management Framework*

Any conformant implementation of the TGF Customer Management Framework:
MUST have a Brand-led **Service Delivery Strategy**, which is agreed and managed at a whole-of-government level and which addresses:
– Customer Insight;
– Product Management;
– Marketing and communication;
MUST have a **Citizen Identity Management Framework**, which:
– uses a federated business model;
– uses a service-oriented IT architecture;

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[8] 'Identity Management' is correctly termed 'Identity *Information* Management' as identity itself is not technically managed but intrinsic to us as humans. It is often shortened to Identity Management, which will be used throughout.

> − is citizen-centric, giving citizens control, choice and transparency over personal data;
>
> **MUST** have a **Citizen Empowerment Framework**, which encourages and enables service innovation in the Citizen-to-Citizen, Business-to-Citizen, and Citizen-to-Government sectors.

427 Further guidance on how to implement this process is given in Part III (b) of this TGF Primer.

Channel Management Framework

429 The two key parts of the Channel Management Framework are:

430 • **Channel Mapping:** a clear audit of what channels are currently used to deliver government
431 services. The TGF Channel Mapping approach includes an analysis of these channels across two
432 key dimensions: which delivery channels are being used ('channel mix') and who owns them
433 ('channel ownership').

434 • **Channel ~~Management~~ Transformation Strategy**: building a new channel management approach
435 centred around the needs and behaviour of citizens and businesses. The key concerns of such an
436 approach include:

437 − Channel Optimization;
438 − Channel Shift;
439 − Cross-Channel Management; and
440 − development of a "Mixed Economy" in service provision through private and voluntary
441 sector intermediaries.

Comment [PFB19]: Consistency with diagram labels and context

442
443 **Figure 6:** *Overview of the Channel Management Framework*

Any conformant implementation of the Channel Management Framework:
MUST have a clear **mapping of existing channels**, and their cost structures
MUST have a **Channel Transformation Strategy** which addresses the following elements:
− Shifting service users into lower cost, digital channels;
− Optimising the cost and performance of each channel, including through use of benchmarking;
− Improving cross-channel management, with the aim of providing a seamless user experience across different channels;
− Developing a thriving mixed economy in the delivery of government services by private and voluntary sector intermediaries.

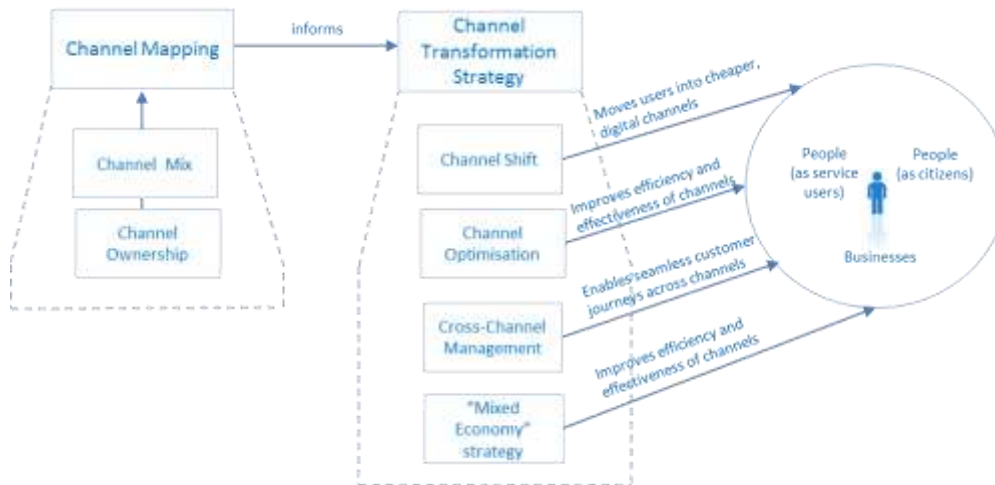444 Further guidance on how to implement this process is given in Part III (c) of this TGF Primer.

Technology Management Framework

446 The elements of the TGF Technology Management Framework are as follows:

447 • Resources Management: the explicit identification and management of all information and
448 technology resources as valued assets, whether information resources (data sets, documents,
449 models, processes, etc.) and technology 'soft products' (systems, applications and services);

450 • Ecosystem Participation: a clear model and understanding of the stakeholders, actors and
451 systems that comprise the overall service ecosystem and their relationships to each other. The
452 model is maintained and updated as stakeholders change over time and over the course of any
453 development effort thus ensuring that requirements are continually evaluated and revised;

454 • SOA-based system Realisation and governance of ICT systems based on SOA principles: Key
455 concerns of such an approach include:

456 • SOA technical architecture and component service ("building block") realisation and re-use;

457 • Service policies;

458 • Identity Management;

459 • Cloud Computing (Service and Infrastructure Virtualisation);

460 • Interaction Design, based on end-user needs

461

> **Comment [PFB20]:** Issue 41 – closed (material moved to Part III(d))
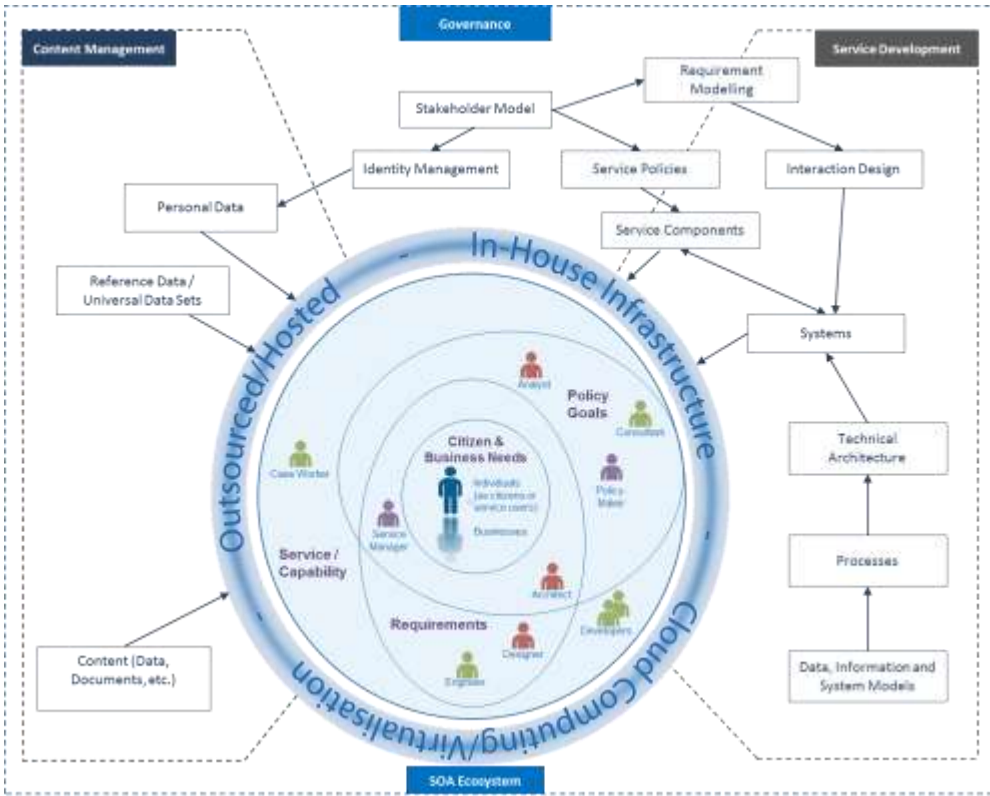
Comment [PFB21]: Figure revised to include 'Business' as well as citizen at centre

462

Figure 7: *Overview of the Technology Management Framework* ~~The Technology Management Framework is modelled as one of the four TGF delivery processes, but it is concerned with more than "just" the delivery of services using ICT. Its focus on the SOA paradigm is key to an approach that puts citizens at the centre of a service ecosystem with many stakeholders, roles and systems involved.~~

~~Service-Oriented Architecture (SOA) must be understood in its broadest sense – as a paradigm for organising and using capabilities distributed and managed across different ownership domains. In this sense, SOA is technology and platform agnostic and thus provides an appropriate foundation for the technology management framework.~~

~~Disparate systems are weaved together as part of a coherent ecosystem while specific 'services', broken down into functional components, are identifiable as distinct from the underlying technologies that deliver them. This encourages ecosystem agility, allowing services to be mixed and matched, composed and re-used – it remains agile and flexible without being brittle, as with many systems where service functionality is tailored and tightly-coupled to addressing a specific problem. Ownership and governance – of information resources as well as ICT products – is federated across ownership boundaries and explicit service descriptions and contracts ensure that everyone knows the 'rules of engagement and use' when using any service.~~

~~Citizens must be understood both as stakeholders in the ecosystem, having – often imprecisely formulated – 'needs' that they seek to satisfy; and as system-focussed actors interacting with pieces of technology in precisely-defined interactions. These interactions are a result of accurately~~

482 ~~modelling the processes required of both system and user in order to deliver a particular service~~
483 ~~capability conforming to explicit 'requirements'. Requirements in turn are revised and updated to~~
484 ~~reflect changes in stakeholder composition and concerns.~~

485 ~~Stakeholders are clearly distinguished and modelled – including the fact that they play different roles~~
486 ~~in different contexts (and which therefore has implications for role-based authentication).~~
487 ~~Stakeholder composition is also a good predictor of project risk – understand and modelling~~
488 ~~stakeholder types helps identify and mitigate risk. Stakeholder modelling underlines that every~~
489 ~~participant in an ICT development project is implicitly an intermediary representing diverse~~
490 ~~stakeholder interests in the deployed service.~~

Any conformant implementation of the Technology Management Framework:

MUST manage information and ICT system resources as distinct, valued assets including issues related to the Identification, ownership, stewardship and usage policies for each asset type;

MUST explicitly model the stakeholders, actors and systems that comprise the overall service ecosystem and their relationships to each other

SHOULD maintain and update the stakeholder model on a regular basis

MUST use the OASIS 'Reference Model for SOA' as the primary source for core concepts and definitions of the SOA paradigm, including

− A clear understanding of the goals, motivations and requirements that any SOA-based system is intended to address;

− Identifiable boundaries of ownership of all components (and identity of the components themselves) in any SOA ecosystem;

− Discrete service realisation and re-use that provides a capability to perform some work on behalf of another party;

− The specification of any capability that is offered for use by another party with ~~C~~clear service descriptions and contracts

SHOULD consider the OASIS 'SOA Reference Architecture Framework' when designing specific SOA-based systems

491 Further guidance on how to implement this process is given in Part III (d) of this TGF Primer.

492 Component 4: Benefit Realisation Strategy

493 The three parts of the TGF Benefit Realisation Strategy are:

494 • **Benefit Mapping:** which sets out all the intended outcomes from the ~~is necessary to ensure~~
495 ~~visibility of~~ transformation program and gives visibility of how the outputs from specific activities
496 and investments in the program flow through to deliver those outcomes ~~activity that is~~
497 ~~undertaken and of how actual outcomes match initial or revised expectations~~;

498 • **Benefit Tracking:** which takes this a step further by baselining current performance against the
499 target output and outcomes, defining "smart" success criteria for future performance, and
500 tracking progress against planned ~~providing mechanisms for establishing and measuring success~~
501 ~~criteria, progress made and~~ delivery trajectories aimed at achieving these success criteria; and

502 • **Benefit Delivery:** which ensures that governance arrangements are in place to ensure continued
503 benefits after the initial transformation program is implemented.

> **Comment [PFB24]:** Issue 33 –closed

504 The relationship between these parts and conformance criteria for this element of the TGF are
505 shown below.
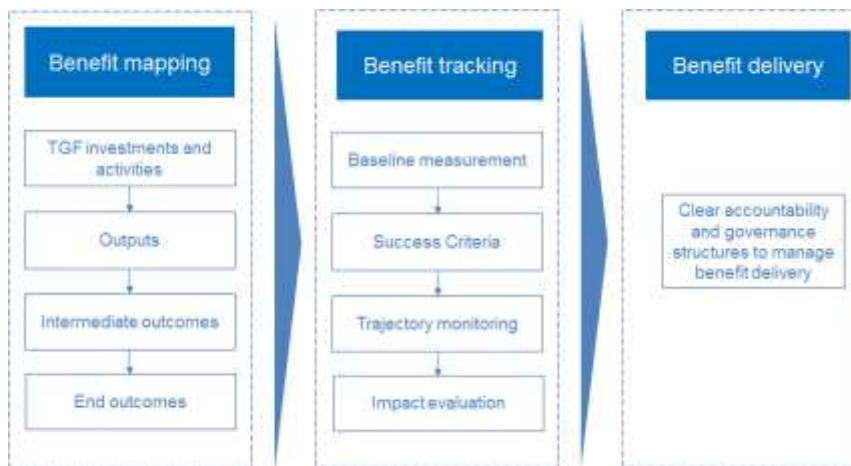
> **Comment [PFB25]:** Issue 35 - closed

507 **Figure 8:** *Overview of the Benefit Realisation Strategy*

Any conformant implementation of the Benefit Realisation Strategy:
MUST clearly identify and quantify the impacts and outcomes that implementation of the TGF aims to achieve
SHOULD ensure clear line-of-sight between every investment and activity in the programme, the immediate outputs these produce, and the final targeted outcomes
MUST establish clear and quantified baselines for the current performance of target outputs and outcomes
MUST set measurable success criteria
SHOULD track progress against planned delivery trajectories for each of the targeted outputs and outcomes
MUST establish clear accountability and governance structures to manage benefit delivery

508

Terminology and Reference Model

The Business Management Framework of the TGF includes formal terminology and a reference model in order to ensure that all stakeholders have a clear, consistent and common understanding of the key concepts involved in Transformational Government; how these concepts relate to each other; how they can be formally modelled; and how such models can be leveraged and integrated into new and existing information architectures.

This enables any conformant agency to use a common terminology without ambiguity and be sure that these terms are used consistently throughout all work.

Why have a terminology and reference model?

In everyday life, we use *terms* – 'citizen', 'need', 'service' – as common, often implicitly accepted labels for *concepts*. The concept is the abstract mental idea (which should be universal and language independent) to which the term gives a material expression in a specific language. Particularly in an international environment such as global standardization initiatives, the distinction is important as it is common concepts that we wish to work with, not common terms[9].

This distinction also helps avoid common modelling pitfalls. Terms that may seem similar or the same across two or more languages may actually refer to different concepts; or a single term in one language could be understood to refer to more than one concept which another language expresses with discrete terms: For example, the English *term* 'service' can refer to different *concepts* – an organisational unit (such as 'Passport Service') or something that is performed by one for another (such as 'a dry cleaning service'), whereas discrete terms are used for the discrete concepts in German ('Dienst' or 'Dienstleistung'). As the TGF is intended for use anywhere in the world, it is important to ensure that (ideally) global concepts can be transposed and translated and thus understood in other languages: we therefore need to associate an explicit definition with each concept as we do in a dictionary. The TGF uses the structure and methodology of an existing international standard to create its terminology[10]

Concepts do not exist in isolation, however. It is the broader understanding of the relationships between concepts that give those concepts fuller meaning and allow us to model our world, our business activities, our stakeholders, etc. in a way that increases the chance that our digital systems are an accurate reflection of our work. In information science, an ontology is a formal representation of knowledge as a set of concepts within a domain, and the relationships between those concepts. It can be used to describe the domain (the coverage should be sufficiently comprehensive to include all concepts relevant to the domain) and to reason about the domain.

The TGF does not include a formal ontology but is sufficiently clear in its concepts, definitions and relationships between concepts that the Framework will use terminology consistently as an internally coherent set. It does include however a "reference model" that is clear enough that subsequent ontology development is possible if so desired.

> **Comment [PFB26]:** Moved to section 3 (JB)

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[9] This is central to all multi-lingual thesauri, for example, where the core item of organisation is the concept, not the term.

[10] *"Terminology work – Vocabulary – Part 1: Theory and application"* [ISO 1087-1:2000]

545 Some key concepts are already introduced below ~~in the TGF Primer core terminology~~. Further
546 guidance on how the terminology is composed and how a reference model may be used is given in
547 Part III (a) of this Primer.

Core Terminology

TGF Leadership, Stakeholders, Administrations and Agencies

Leadership
Key people and governance structures needed to develop and implement a Transformational Government program

Stakeholder
Any claimant inside or outside an organisation who have a vested interest in any problem and/or its solution

Stakeholder Governance Model
Model and process in which key stakeholders are identified, engaged and buy-in to the transformation program

Transformation Business Model

Delivery Roadmap
A detailed multi-year plan for the delivery of an overall cross-government vision for service transformation

Transformational Government
A managed, citizen-centred, process of ICT-enabled change in the public sector

Policy formulation and Policy Products

Goal
*A broadly stated, unmeasured but desired outcome. Not to be confused with an **Objective***

Need
*A general statement expressed by a stakeholder of something that is required. Not to be confused with a **Requirement***

Objective
A specific, measurable and achievable outcome that a participant seeks to achieve

Policy Product
A document that has been formally adopted on a government-wide basis and aimed at helping achieve one or other goal of citizen service transformation

Requirement
A formal statement of a desired result that, if achieved, will satisfy a need

Service delivery and the Franchise Marketplace Model

Accessibility
A policy prescription that aims at ensuring that people with disabilities and the elderly can use public services with the same service levels as all other citizens.

Channel
A particular means and/or path of delivery of a service to a customer

Customer Franchise

A collaborative organisation created by the government with the purpose of: understanding the needs of a specific customer segment for government services (such as, for example, parents, motorists, disabled people, land and property); championing the needs of that segment within government; aggregating content and transactions for that segment from across government and beyond; and delivering that content and services as part of the wider Franchise Marketplace.

Franchise Marketplace

A collection of The virtual business infrastructures within which Customer Franchises collaborate with each other and other stakeholders to deliver user-centric, trusted and interoperable content and transactions to citizens and businesses. The Franchise Marketplace is the business model recommended by the TGF for best delivering the TGF Guiding Principle of "Build services around customer needs, not organisational structure"a current structure of Government. Current structures continue to deliver services but the delivery is intermediated through this risk-averse virtual franchise.

> **Comment [PFB27]:** Issue 39- closed

Delegate

Some person or agent acting with authority on behalf of another person.

Inclusion

A policy prescription that aims at allowing everyone to take full advantage of the opportunities offered by new technologies to overcome social and economic disadvantages and exclusion.

SOA and Technology Infrastructure

Ecosystem

A set of ICT systems and stakeholders together with the environment and context within which they all operate

Interoperability

The ability of disparate and diverse organisations to interact towards mutually beneficial and agreed common goals, involving the sharing of information and knowledge between the organisations, through the business processes they support, by means of the exchange of data between their respective ICT systems.

Security

The set of mechanisms for ensuring and enhancing trust and confidence in a system.

Service-Orientation, Service-Oriented

A paradigm for organizing and utilizing distributed capabilities that may be under the control of different ownership domains.

System

A collection of components organized to accomplish a specific function or set of functions

Conformance Criteria

A consolidated view of the conformance criteria described in the TGF is given below. Any conformant implementation of this Framework:

1. **MUST use the Guiding Principles** set out in Component 1 of the TGF

2. **MUST have delivery processes for business management, customer management, channel management and technology management** which address the best practices described in Component 2 of the TGF. Specifically, this means:

a) A Business Management Framework which:
   - **MUST have Leadership which involves:**
     − Clear accountability at both the political and administrative levels;
     − Deployment of formal program management disciplines;
     − A clearly identified mix of leadership skills;
     − Engagement of a broad-based leadership team across the wider government.

   - **MUST** have a **Collaborative Stakeholder Governance Model**
   - **MUST** have an agreed and **common terminology and reference model**
   - **MUST** have a **Transformation Business Model**
   - **SHOULD** use the **Franchise Marketplace Model**
   - **MUST** use the **Policy Product Map** as a tool to help identify Policy Products needed within the relevant government
   - MUST have a phased Transformation Roadmap

b) A Customer Management Framework which:
   - **MUST** have a Brand-led **Service Delivery Strategy**, which is agreed and managed at a whole-of-government level and which addresses:
     − Customer Insight
     − Product Management
     − Marketing and communication

   - **MUST** have a **Citizen Identity Management Framework**, which:
     − Uses a federated business model
     − Uses a service-oriented architecture (as part of the wider SOA described in the TGF Technology Management Framework)
     − Is citizen-centric, giving citizens control, choice and transparency over personal data

   - **MUST** have a **Citizen Empowerment Framework**, which encourages and enables service innovation in the Citizen-to-Citizen, Business-to-Citizen, ~~and~~ Citizen-to-Government, and Business-to-Government sectors

   > **Comment [PFB28]:** Add reference to B2G (NG)

c) A Channel Management Framework which:
   - **MUST** have a clear **mapping of existing channels**, and their cost structures
   - MUST have a **Channel Transformation Strategy** which addresses the following elements:

664   − Shifting service users into lower cost, digital channels

665   − Optimising the cost and performance of each channel, including through use of
666   benchmarking

667   − Improving cross-channel management, with the aim of providing a seamless user
668   experience across different channels

669   − Developing a thriving mixed economy in the delivery of government services by private
670   and voluntary sector intermediaries.

671 d) A Technology Management Framework which:

672 • **MUST** manage information and ICT system resources as distinct, valued assets including
673 issues related to the Identification, ownership, stewardship and usage policies for each asset
674 type;

675 • **MUST** explicitly model the stakeholders, actors and systems that comprise the overall
676 service ecosystem and their relationships to each other

677 • **SHOULD** maintain and update the stakeholder model on a regular basis

678 • **MUST** use the OASIS 'Reference Model for SOA' as the primary source for core concepts and
679 definitions of the SOA paradigm, including

680   − A clear understanding of the goals, motivations and requirements that any SOA-based
681   system is intended to address;

682   − Identifiable boundaries of ownership of all components (and identity of the components
683   themselves) in any SOA ecosystem;

684   − Discrete service realisation and re-use that provides a capability to perform some work
685   on behalf of another party;

686   − The specification of any capability that is offered for use by another party with clear
687   service descriptions and contracts

Comment [PFB29]: Issue 40 - closed

688 **3. MUST measure and manage the Critical Success Factors** outlined in Component 3 of the TGF

689 **4. SHOULD seek regular, independent review of performance** against these Critical Success
690 Factors

691 **5. MUST have a Benefit Realisation Strategy** which addresses the areas of benefit mapping,
692 benefit tracking and benefit delivery as described in Component 4 of the TGF

693 In terms of the primary users identified for the TGF in Part I:

694 • A conformant government will be able to demonstrate and document that it is engaged in a
695 Transformation Program which complies with all these criteria.

696 • A conformant private-sector organisation will be able to demonstrate and document that it
697 provides products and services which help governments to comply with all these criteria.

Part III: Guidance Notes

This part of the TGF Primer sets out some initial guidance to help TGF users understand and implement the TGF, focusing in particular on:

- The TGF Business Management Framework
- The TGF Customer Management Framework
- The TGF Channel Management Framework
- The TGF Technology Management Framework
- TGF Terminology.

We envisage issuing further guidance over time, but this initial set of guidance notes is intended to give a deeper view of the context for these major elements of the TGF, and to highlight best practice approaches to its implementation.

Part III (a): Guidance on the TGF Business Management Framework

Introduction

The TGF Business Management Framework is in four main sections:

- Context
- Overview of key components in the TGF Business Management Framework
- Detailed description of and guidance on the key components

Context

For largely historical reasons, governments are generally organised around individually accountable vertical silos (for example, tax, health, transport) with clear demarcations between central, regional, and local government. Even within a particular tier of government, several organisations can have responsibility for different aspects of the same person, same asset or same process. Yet citizens' and business needs cut across these demarcations. In moving to a citizencustomer-centric approach, it is vital to redress this fragmented approach to business management, and to put in place business management processes which operate at the whole-of-government level.

Comment [PFB30]: Previously agreed material was omitted (NG)

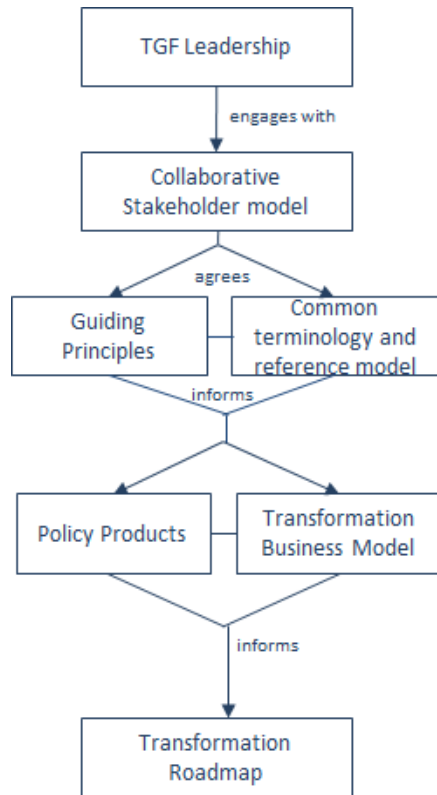## Overview of key components in the TGF Business Management Framework

The Transformational Government Framework identifies six key aspects of business management which need to be tackled in this way:

- **Transformational Government leadership:** the key people and governance structures needed to develop and implement a Transformational Government program
- A **collaborative Stakeholder Governance Model:** the process by which all key stakeholders are identified, engaged and buy-in to the transformation program, including to the Guiding Principles described in Component 1 of the TGF
- A **common terminology and reference architecture:** ensuring that all stakeholders have a clear, consistent and common understanding of the key concepts involved in Transformational Government and how these inter-relate
- A **Transformation Business Model:** a new virtual business layer within government, focused round the needs of citizens and businesses, which enables the existing silo-based structure of government to collaborate effectively in understanding and meeting user needs
- The **development and management of Policy Products** that constitute the documented commitment to the transformational process of any conformant agency
- A **Transformation Delivery Roadmap:** giving a four to five year view of how the program will be delivered, with explicit recognition of priorities and trade-offs between different elements of the program.

A high level view of the logical relationships between these components is illustrated below.

745 **Figure 9:** *Key components of the Business Management Framework*

Transformational Government Leadership

747 Transformation programs require sustained leadership over a period of years.

748 There is no "ideal" leadership structure for a transformation program: the optimal positioning of the
749 leadership team will depend on the context of each specific government. However, global
750 experience suggests the following factors are vital to address in whichever way is most appropriate
751 for the specific context:

752 • **A clear focus of accountability:** at both the political and administrative levels, there should be an
753   explicit functional a senior and empowered individual who has overall responsibility for the
754   Transformation Program. These functions should be occupied by individuals with sufficient
755   authority to command the resources and mobilise the support necessary to fulfil this mission.

Comment [PFB31]: Issue 10 - closed

756 • Deployment of **formal program management disciplines:** to deliver effective Government-wide
757   transformation, it is vital to use a formalised program management approach, such as PRINCE
758   2[11].

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[11] PRINCE2 is a process-based approach for project management, providing an easily tailored and scalable project management
methodology for the management of all types of projects. The method is the de-facto standard for project management in the UK
and is practiced worldwide. It is in the public domain, offering non-proprietorial best practice guidance on project management.
PRINCE2 is a registered trademark of the UK government's Office of Government Commerce.

759 • Ensuring the **right skills mix in the leadership team**. Effective leadership of a Transformation
760   Program requires the senior accountable leaders to have access to a mix of key skills in the
761   leadership team which they build around them, including: strategy development skills,
762   stakeholder engagement skills, marketing skills, commercial skills and technology management
763   skills. Deployment of a formal competency framework such as SFIA[12] can be helpful in identifying
764   and building the right skill sets.

765 • Building a **broad-based leadership team across the wider government.** It is not essential that all
766   Ministers and senior management are committed to the transformation program from the
767   outset. Indeed, a key feature of an effective roadmap for transformation is that it nurtures and
768   grows support for the strategy through the implementation process. However, it is important
769   that the program is seen not simply as a centralised or top-down initiative. Sharing leadership
770   roles with senior colleagues across the Government organisation is therefore important. Further
771   detail on this is set out in the section below on a collaborative stakeholder model.

772 ## Collaborative Stakeholder Governance Model

Comment [PFB32]: Issue 42 - closed

773 Development and delivery of an effective Transformational Government program requires
774 engagement with a very wide range of stakeholders, not only across the whole of government but
775 also with the private sector, voluntary and community sectors as well as with business and citizen
776 users of public services. A significant effort is needed to include all stakeholders in the governance
777 of the Transformational Government program at an appropriate and effective level.

778 Key elements are set out below that a conformant TGF program will need to address in developing
779 its Collaborative Stakeholder Governance Model, if it is to engage successfully with stakeholders and
780 align them effectively behind shared objectives. Each of these elements is then discussed in more
781 detail.

---

[12] The Skills Framework for the Information Age (SFIA) provides a common reference model for the identification of the skills needed to develop effective Information Systems (IS) making use of ICT, enabling employers of ICT professionals to carry out a range of HR activities against a common framework of reference - including skill audit, planning future skill requirements, development programmes, standardisation of job titles and functions, and resource allocation. The Skills Framework for the Information Age is owned by The SFIA Foundation: www.SFIA.org.uk.
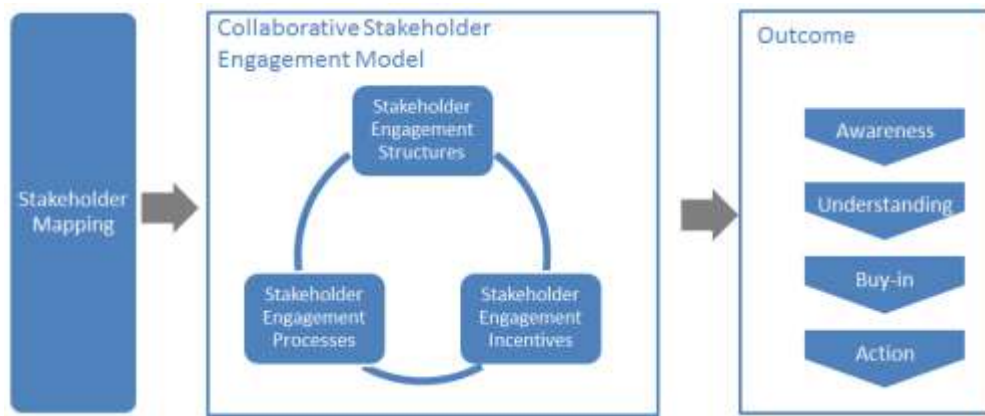
782

783   **Figure 10:** *Overview of Collaborative Stakeholder Governance*

784   *Stakeholder Mapping*

785   It is vital to describe and map the complete landscape of relevant stakeholders. The
786   Transformational Government Framework puts the individual – whether as a citizen or as someone
787   acting within a business or other role – at the centre:

788

789   **Figure 11:** *Landscape of some key stakeholders*

This view deliberately and completely avoids the rather generic concept of 'User' that is dominant in traditional IT stakeholder engagement models, preferring rather to identify the different interests and concerns that are at stake (the mauve labels) and the key groups of stakeholders (the different people icons) in the development of any service.

The figure is by no means complete nor the only 'valid' view. It seeks instead to illustrate that the process of transformation requires reappraisal of the current set-up and assessment of what needs to change.

By clearly separating out key stakeholder groups and starting to understand and articulate their specific concerns *as stakeholders* (any individual's *role* may vary according to context: in one situation, a person is a parent; in another, a policy-maker; or another, a service provider), we can start to understand how stakeholders relate (in different roles): to each other; to various administrations and services involved; to policy drivers and constraints; and how these all come together in a coherent ecosystem supported by a Transformational Government Framework. In this view,

- A **service** (or ICT capability made available as a service) is understood as responding to a set of requirements and policy goals (some of which overlap) – stakeholders concerned at this level include, for example, case workers in a public administration or developers who have worked with them in delivering a specific service;
- **Requirements** encapsulate and formalise vaguely stated goals and needs of citizens and businesses and take on board the policy goals of the political sponsor or champion – stakeholders at this level include, for example, managers of public service who can articulate the needs of their respective services, the information and systems architects who capture those needs as formal requirements that engineers can work with to develop services;
- **Policy Goals** capture the high-level concerns and priorities of the political authorities and continually assess how these goals reflect key citizen and business concerns – stakeholders include policy makers and senior management as well as consultants and analysts involved in helping identify technology and administrative trends that can be used to leverage those goals; and finally;
- Citizen and Business **Needs** that, ultimately, can only be fully understood by the people concerned themselves – nonetheless stakeholders at this level can also include citizen or business associations, consumer and other interest groups who engage with policy makers to advance the interests of certain groups with distinct needs and are able to articulate those needs in ways that can be used by analysts and consultants.

The various ellipses in the diagram above are deliberately not concentric circles. This is to underline that the process of establishing a service or capability is not a linear one going from needs, goals and requirements. In reality stages are often inter-related.

The mapping of stakeholders and their principal concerns at a generic level is used as a key input to the TGF reference model outlined in the next section and that needs to be validated within any TGF program. It is valuable as a tool for encouraging collaborative governance as it renders explicit many of the relationships and concerns that are often left implicit but nonetheless impact on an organisation's ability to reflect stakeholders' concerns.

The Stakeholder Engagement Model

However, it is not enough simply to map and understand stakeholder relationships and concerns. An effective TGF program will also address the three other dimensions of the model illustrated above:

- **Stakeholder Engagement Structures:** the organisational arrangements put in place to lead the transformation programme, e.g.:
  - central unit(s)
  - governance boards
  - industry partnership board

- **Stakeholder Engagement Processes:** the processes and work flows through which the TGF Leadership and the different TGF Stakeholders interact, e.g.:
  - reporting and accountability processes
  - risk management processes
  - issue escalation processes
  - consultation processes
  - collaborative product development processes.

- **Stakeholder Incentives:** the set of levers available to drive change through these governance structures and processes. These will vary by government, but typical levers being deployed include:
  - central mandates
  - political leadership
  - administrative championship
  - personal performance incentives for government officials
  - alignment between public policy objectives and the commercial objectives of private sector partners.

There is no one right model for doing this successfully, but any conformant TGF program needs to make sure that it has used the framework above to define its own Collaborative Stakeholder Engagement Model which explicitly articulates all of these elements: a comprehensive stakeholder map, coupled with the structures, processes and incentives needed to deliver full understanding and buy-in to the program, plus effective stakeholder action in support of it.

Collaboration between TGF Programs

The model clearly focuses attention *within* any specific TGF program. However (and increasingly) collaboration is required also *between* governments and, by implication, between TGF programs.

In the figure below, we see that collaboration between TGF programs is favoured at the political, legal and organisational levels and only later, if and when necessary, at the more 'tightly-coupled' semantic and technical levels.

866
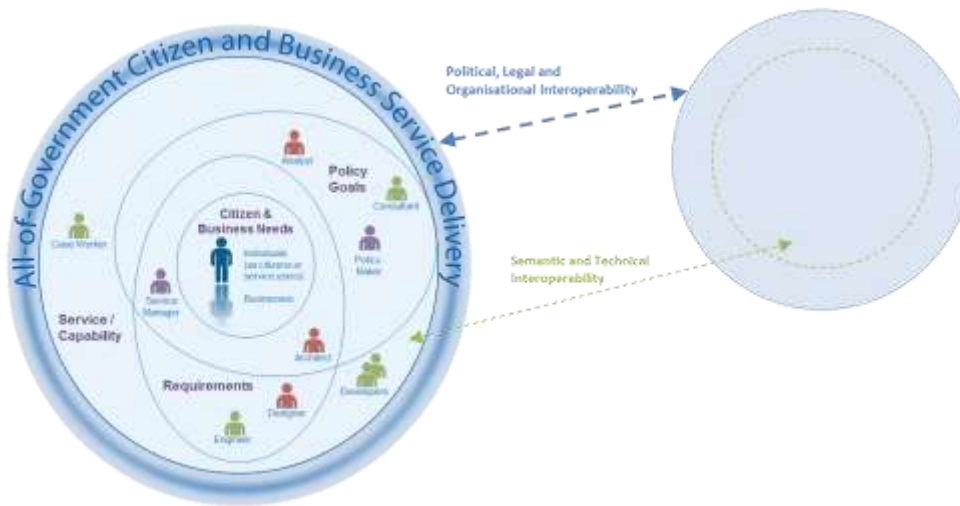
Figure 12: *Collaboration between TGF programs through different levels of Interoperability*

868 This approach is also consistent with the SOA paradigm for service development – not only are
869 requirements defined and services offered independently of any underlying technology or
870 infrastructure but also one TGF program can be seen (and may need to be seen) as a 'service
871 provider' to another TGF program's 'service request'. For example, a business wishing to establish
872 itself in a second country may need to provide authenticated information and credentials managed
873 by government or business in the first country.

874 A further advantage of this approach is that it becomes easier to identify and manage high level
875 government requirements for services: whether in the choice of ICT standards that may need to be
876 used to address a particular technology issue or determining the criteria for awarding public
877 procurement contracts, this approach allows a 'loose-coupling' at the level of clearly defined high-
878 level policy needs rather than the more tightly-coupled and often brittle approach of specifying
879 particular technologies, software or systems.

Common Terminology and Reference Model

881 In any change program of this breadth and complexity, it is vital that all stakeholders have a common
882 understanding of the key concepts involved and how they interrelate, and have a common language
883 to describe these in.

884 We therefore recommend that a TGF-conformant transformation program should seek to agree with
885 stakeholders a common Terminology and Transformation Reference Model.

886 *Why have a terminology and reference model?*

887 In everyday life, we use *terms* – 'citizen', 'need', 'service' – as common, often implicitly accepted
888 labels for *concepts*. The concept is the abstract mental idea (which should be universal and language
889 independent) to which the term gives a material expression in a specific language. Particularly in an

890 international environment such as global standardization initiatives, the distinction is important as it
891 is common concepts that we wish to work with, not common terms[13].

892 This distinction also helps avoid common modelling pitfalls. Terms that may seem similar or the same
893 across two or more languages may actually refer to different concepts; or a single term in one
894 language could be understood to refer to more than one concept which another language expresses
895 with discrete terms: For example, the English *term* 'service' can refer to different *concepts* - an
896 organisational unit (such as 'Passport Service') or something that is performed by one for another
897 (such as 'a dry cleaning service'), whereas discrete terms are used for the discrete concepts in
898 German ('Dienst' or 'Dienstleistung'). As the TGF is intended for use anywhere in the world, it is
899 important to ensure that (ideally) global concepts can be transposed and translated and thus
900 understood in other languages: we therefore need to associate an explicit definition with each
901 concept as we do in a dictionary. The TGF uses the structure and methodology of an existing
902 international standard to create its terminology[14]

903 Concepts do not exist in isolation, however. It is the broader understanding of the relationships
904 between concepts that give those concepts fuller meaning and allow us to model our world, our
905 business activities, our stakeholders, etc. in a way that increases the chance that our digital systems
906 are an accurate reflection of our work. In information science, an ontology is a formal representation
907 of knowledge as a set of concepts within a domain, and the relationships between those concepts. It
908 can be used to describe the domain (the coverage should be sufficiently comprehensive to include all
909 concepts relevant to the domain) and to reason about the domain.

910 The TGF does not include a formal ontology but is sufficiently clear in its concepts, definitions and
911 relationships between concepts that the Framework will use consistently as an internally coherent
912 set. It does include however a "reference model" that is clear enough that subsequent ontology
913 development is possible if so desired.

> **Comment [PFB33]:** Moved from Part II (JB)

914 To assist with this we set out in tThe TGF Primer already includes a formal definitions of key concepts
915 used throughout the Framework and a complete formal terminology and reference model – that
916 formalizes the concepts and the relationships between them – is prepared as TBD a separate
917 deliverableto identify all concepts and the important relationships between them.

918 ## Transformation Business Model

919 *Weaknesses of current models*

920 A central task of the TGF leadership and collaborative stakeholder model is to develop a new and
921 effective business model which enables the machinery of government to deliver citizen-centric
922 services in practice.

923 It is failure to address this requirement for a new business model which, arguably, has been the
924 greatest weakness of most traditional e-Government programmes. For the most part, the transition
925 to e-Government has involved overlaying technology onto the existing business model of
926 government: a business model based around unconnected silos - in which policy-making, budgets,

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[13] This is central to all multi-lingual thesauri, for example, where the core item of organisation is the concept, not the term.

[14] "*Terminology work – Vocabulary – Part 1: Theory and application*" [ISO 1087-1:2000]

927 accountability, decision-making and service delivery are all embedded within a vertically-integrated
928 delivery chain based around specific government functions. The experience of governments around
929 the world over the last two decades is that this simply does not work.

930 So what is the new business model which is required to deliver citizen service transformation? Many
931 attempts have been made by governments to introduce greater cross-government coordination, but
932 largely these have been "bolted on" to the underlying business model, and hence experience only
933 limited success.

The Franchise Marketplace Model

935 This Framework recommends implementation of a business model which permits the joining-up of
936 services from all parts of government and external stakeholders in a way that makes sense to citizens
937 and businesses, yet without attempting to restructure those the participating parts of government.
938 Conceptually, this leads to a model where the existing structure of government continues to act as a
939 supplier of services, but intermediated by a "virtual" business infrastructure based around customer
940 needs. A top-level view of such a virtual, market-based approach to citizen service transformation is
941 set out in the figure below:

Comment [PFB34]: The model involves non-government parties too (NG)
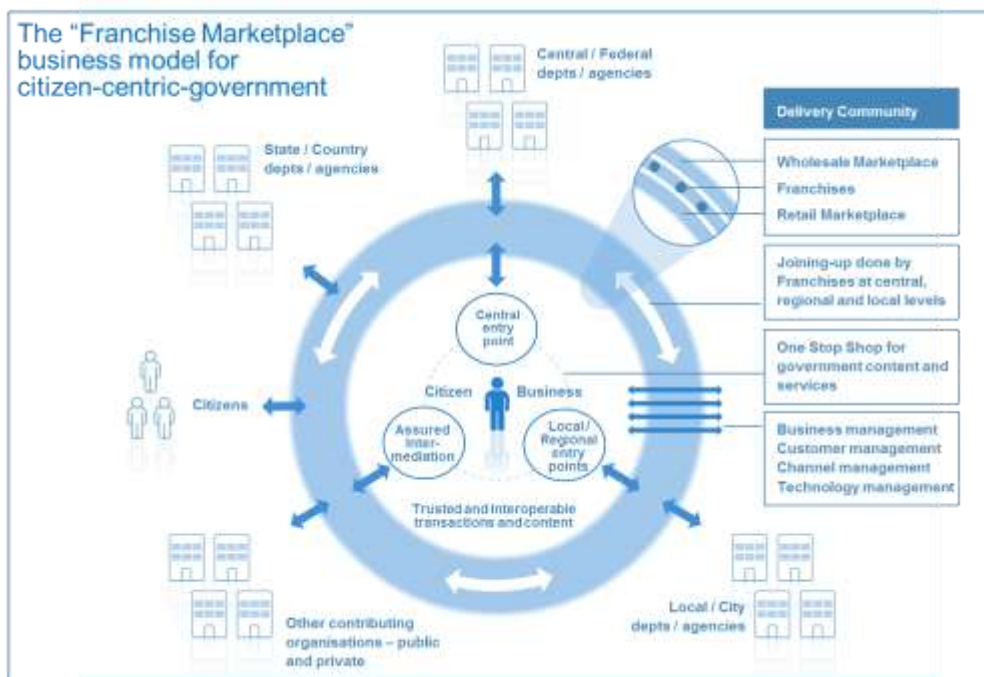
Comment [PFB35]: Issue 11 – closed

942
943 **Figure 13:** *Overview of the Franchise Marketplace*

944 Key features of this business model are:
945 • The model puts into place a number of agile cross-government virtual "franchise businesses"
946   based around customer segments (such as, for example, parents, motorists, disabled people).
947   These franchises are responsible for gaining full understanding of their customers' needs so that
948   they can deliver quickly and adapt to changing requirements over time in order to deliver more

949 customer centric services - which in turn, is proven to drive higher service take-up and greater
950 customer satisfaction.

951 • Franchises provide a risk-averse operational structure that enables functionally-organised
952   government agencies at national, regional and local to work together in a customer-focused
953   "Delivery Community". They do this by :

954   − Enabling government to create a "virtual" delivery structure focused on customer needs
955   − Operating inside across the existing structure- of Government (because they are owned and
956   resourcedled by one of the existing "silos") and resourced by organisations which has a that
957   have close links to with the relevant customer segment) including, possibly, some outside of
958   government

959   − Dividing the task into manageable chunks
960   − Removing a single point of failure
961   − Working to a new and precisely-defined operating model so as to ensure consistency
962   − Working across and beyond government (and beyond) to manage the key risks to citizen-
963   centric service delivery
964   − Acting as change agents inside-Government departments / agencies.

965 • The model enables a "mixed economy" of service provision:
966   − firstly, by providing a clear market framework within which private and voluntary sector
967   service providers can repackage public sector content and services; and
968   − secondly by disseminating deploying 'Web 2.0' type approaches across government that
969   promote re-use and 'mash-ups' of existing content and services, to make this simpler and
970   cheaper at a technical level.

971 • The whole model is capable of being delivered using Cloud Computing

972 This Franchise model represents an important break-through in the shift from a traditional
973 e-Government approach towards citizen service transformation. Certainly, the model as a whole or
974 key elements of it has been adopted successfully in governments as diverse as the UK, Hong Kong,
975 Croatia, Abu Dhabi and Australia (where it has been adopted by both the South Australia and
976 Queensland governments).

977 It is clearly possible that alternate models may develop in future. But however the Transformational
978 Government agenda develops, every government will need to find some sort of new business model
979 along these lines, rather than continue simply to overlay technology onto an old silo-based business
980 model built for an un-networked world.

981 *Enabling the Franchise Marketplace Model*

982 A number of relationships need to be managed by a franchise to enable it to develop, maintain and
983 deliver transformational citizen-centric services. These represent different viewpoints that can be
984 broadly classified as:

985 • **Service ParticipantsCustomers**: Those citizens and businesses to whom the franchise delivers
986   content and services, plus those internal stakeholders to whom the franchise provides a service
987   within the government who are actors in the normal operation of the service.
988 • **Partners:** Those who are actors in the normal operation and delivery of the service, both
989   internally and externally to the government.

990 • **Influencers:** those who have a political, business or altruistic interest in the service and the part
991   that it plays in broader government, business and social scenarios.
992 • ~~Supporting Assets: Those organisations/bodies and facilities that are necessary to provide a~~
993   ~~technical underpinning for this and other services.~~
994 • ~~Contributors~~Internal Customers: Those who work with the franchise to develop and maintain
995   the service.

Comment [PFB38]: Issue 42 - closed
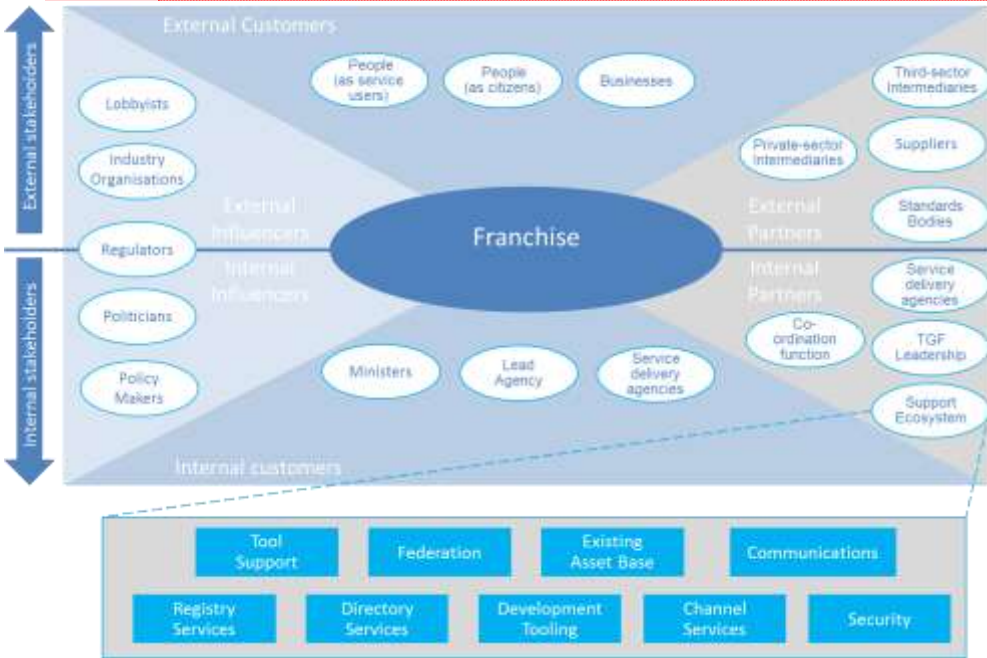
996

997 **Figure 14:** *Relationships in the Franchise Marketplace*

The Franchise

999 The franchise is based around a customer segment. It may contain bodies drawn from central,
1000 regional, and state government and others that contribute to serving that segment.

1001 It MUST have a lead organisation that ensures its interests are represented to other franchises and
1002 bodies. It MUST also have sponsoring organisations that with a responsibility for the full range of
1003 service perspectives across the segment.

1004 The franchise is responsible for ensuring that all relationships with external bodies are managed and
1005 for the provision of supporting assets necessary to allow organisations within the franchise and
1006 working with it to discharge their responsibilities in an open, consultative and transparent manner.

1007 Despite the importance of the franchise concept, it is not intended to add unnecessary bureaucracy
1008 – rather, it is intended to provide a lightweight framework within which participants can work
1009 naturally and cooperatively.

Customers

Customers are the most important actors in operational services as the services MUST address their needs and those of the people that they represent.

Thus, as well as being users, it is essential that they are consulted during the proposal stage for all services. Once operational, this group SHOULD to be involved in customer satisfaction exercises and the development of any service enhancements to ensure that their needs continue to be met.

It is vital that Franchises identify their internal government customers and apply similar customer research and customer satisfaction measurement to these internal customer relationships as well as to external ones.

Partners

Many partners will be involved in helping the Franchise effectively to deliver the requirements of its customer segment. The partnership may involve:
- working with the franchise to develop and maintain the service
- providing the supporting assets which give a technical underpinning for this and other services.

The supporting assets provide the technical underpinning for project delivery. Where they are publically owned, it is intended that they will provide light-touch governance and facilities (primarily technical) to support franchises and inter-working between them and with standards bodies.

It is essential that they ensure the provision and availability of assets that are universal (i.e. fundamental items that are required by all public sector organisations) or common (i.e. assets used across multiple franchises).

Tooling SHOULD to be provided with the aim of supporting all stakeholders and facilitating their collaboration.

Influencers

The influencers are those who identify, and possibly mandate, the need for a service. Accordingly, it is vital that they are able to steer developments within and across franchises. They also have a responsibility to ensure that all stakeholders are aligned and are organisationally capable of discharging their responsibilities.

Policy Product Management

We define a "Policy Product" as: any document which has been formally adopted on a government-wide basis in order to help achieve the goals of citizen service transformation. These documents vary in nature (from statutory documents with legal force, through mandated policies, to informal guidance and best practice) and in length (some may be very lengthy documents; others just a few paragraphs of text). Policy Products are important drivers of change within government: first because the process of producing them, if managed effectively, can help ensure strategic clarity and stakeholder buy-in; and second because they then become vital communication and management tools.

Over recent years, several governments have published a wide range of Policy Products as part of their work on Interoperability Frameworks and Enterprise Architectures, and other governments are

1048 therefore able to draw on these as reference models when developing their own Policy Products.
1049 However, we believe that the set of Policy Products required to ensure that a holistic, government -
1050 wide vision for transformation can be delivered is much broader than is currently being addressed in
1051 most Interoperability Frameworks and Enterprise Architectures.

1052 A TGF-conformant transformation program will use the ~~Policy Product Map~~ matrix shown below to
1053 create a map of the ~~as an assessment framework for determining what~~ Policy Products that are
1054 needed to deliver the program effectively. This matrix maps the four delivery processes described in
1055 Component 2 of the TGF (Business Management, Customer Management, Channel Management and
1056 service-oriented Technology Management) against the five interoperability domains identified in
1057 what is currently the broadest of Interoperability Frameworks - the European Interoperability
1058 Framework (EIF)[15]: technical, semantic, organisational, legal and policy interoperability. While the EIF
1059 framework is conceptually complete, by mapping it against these core delivery processes, a much
1060 clearer sense can be gained of the actions which are needed.

The TGF Policy Product Map	Political Interoperability	Legal Interoperability	Organisational Interoperability	Semantic Interoperability	Technical Interoperability
Business Management	Strategic Business Case for overall Programme	Legal vires for inter-agency collaboration	Benefits Realisation Plan	Business Process Model	Technology roadmap
Customer Management	Identity Management Strategy	Privacy, data protection and data security legislation	Federated trust model for cross-agency identity management	Common data standards	Single sign-on architecture
Channel Management	Intermediaries Policy	Pro-competitive regulatory framework for the telecoms sector	Channel Management guidelines	Web accessibility guidelines	Presentation architecture
Technology Management	Information Security policy	Procurement legislation	Service level agreements	Physical data model	Interoperability Framework

> **Comment [PFB39]:** Issue 6 - closed

1061 **Figure 15:** *A Policy Product Map completed with examples of individual policy products. Each cell in the*
1062 *matrix may contain one or more policy products depending on the outcome of relevant analysis*

1063 A full analysis of the Policy Products which we recommend are typically needed to deliver an
1064 effective and holistic transformation program will be included in a separate Committee Note "Tools
1065 and Models for the Business Management Framework". ~~However,~~Although the detailed Policy
1066 Products in that note are advisory ~~only. Whilst every policy product indicated~~ and not all of them
1067 may ~~not~~ be needed, ~~we recommend that~~ any conformant transformation program ~~should~~ MUST use
1068 the overall framework and matrix of the Policy Product Map in order to conduct at minimum a gap
1069 analysis aimed at identifying ~~all~~ the key Policy Products needed for that government, taking the
1070 Committee Note into account as guidance.

> **Comment [PFB40]:** Consistency with statements about mandated use of policy map (NG)

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[15] ~~European Interoperability Framework (EIF) for European public services, see~~
~~http://ec.europa.eu/isa/strategy/doc/annex_ii_eif_en.pdf~~
~~(http://ec.europa.eu/isa/strategy/doc/110113__iop_communication_annex_eif.pdf)~~

1071 Transformation Roadmap

1072 Finally, it is essential that the vision, strategy, business model and policies for citizen service
1073 transformation are translated into an effective Transformation Roadmap.

1074 Since everything can clearly not be done at once, it is vital to map out which elements of the
1075 transformation programme need to be started immediately, which can be done later, and in what
1076 order. There is no one-size-fits all strategy which governments can use, since strategy needs to be
1077 tailored to the unique circumstances of each government's situation.

1078 However, all governments face the same strategic trade-offs: needing to ensure clear line-of-sight
1079 between all aspects of programme activity and the end outcomes which the Government is seeking
1080 to achieve, and to balance quick wins with the key steps needed to drive longer term transformation.

1081 In the early days of the Transformational Government program, we recommend that the major
1082 strategic focus should be on **safe delivery** - that is, prioritising high benefit actions which help to
1083 accelerate belief and confidence across the Government and the wider stakeholder community that
1084 ICT-enabled change is possible and beneficial - but which can be delivered with very low levels of
1085 risk. As the programme develops, and an increasing number of services become available, the
1086 strategic focus can move towards **building take-up**: that is, building demand for online services and
1087 creating a critical mass of users. Once that critical mass starts to appear, the strategic focus can start
1088 to shift towards fuller **transformation**: in other words, to start driving out some of the more
1089 significant transformational benefits that high levels of service take-up enables, for example in terms
1090 of reducing the cost of government service delivery.

1091 As the diagram below makes clear, these strategic foci are not mutually exclusive, but overlap.
1092 Crucially, in the Safe Delivery phase there will also be some vital steps needed in order to pave the
1093 way for longer term transformation, particularly in respect of establishing the business case for
1094 transformation, and embedding the strategy in effective governance processes. But the diagram
1095 shows how the strategic weight between each consideration should shift over time.
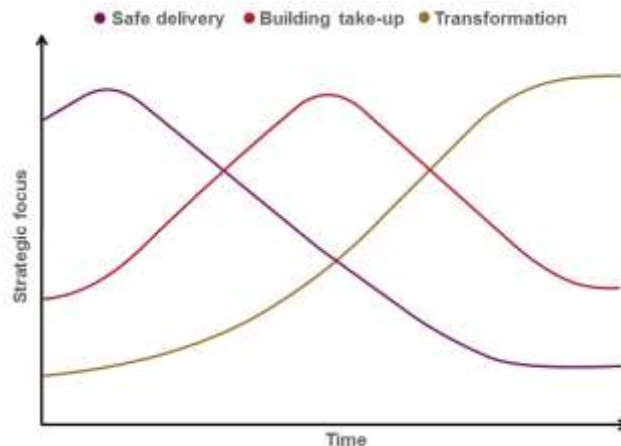
1096 Figure 16: *Roadmap priorities over time*

1097 Guided by the strategic trade-off framework described above, experience shows that a phased
1098 approach is the most successful. Typically, an effective Delivery Roadmap will cover five main phases.

1099 *Plan*

1100 The preparation and planning needed to develop a tailored Delivery Roadmap for the Government,
1101 to ensure that the business case for transformation is fully articulated, and that all key stakeholders
1102 are on-board. Key outputs from this phase should include:
1103 • Transformation vision: a high level document setting out the agreed future model for
1104   transformation of our client organisation and its re-engineered business processes
1105 • Strategic business case: the key costs and benefits associated with the transformation
1106   programme
1107 • Delivery roadmap: a multi-year transformation plan, covering, among other things:
1108   − A change management plan (including communication and training plans)
1109   − Central capability building and governance processes
1110   − A sourcing strategy
1111   − A strategy for moving towards a service oriented ICT architecture
1112   − A risk management strategy
1113   − A high level benefit realisation plan, setting out the actions needed to ensure full
1114   downstream delivery of the intended benefits from the transformation programme.

1115 *Initiate*

1116 In this first phase of delivery, the focus is on building the maximum of momentum behind the
1117 Roadmap for the minimum of delivery risk. This means focusing in particular on three things:
1118 • some early quick wins to demonstrate progress and early benefits, for a minimum of delivery risk
1119   and using little or no technology expenditure
1120 • embedding the Roadmap in governance structures and processes which will be needed to inform
1121   all future investments, notably the frameworks of enterprise architecture, customer service
1122   standards and issue/risk management that will be required
1123 • selecting effective delivery partners.

1124 *Deliver*

1125 In this phase, some of the more significant investments start coming on stream - for example, the
1126 first version of the major "one-stop" citizen-facing delivery platforms, and the first wave of
1127 transformation projects from "champion" or "early adopter" agencies within the Government

1128 *Consolidate*

1129 In this phase, the focus shifts towards driving take-up of the initial services, expanding the initial one-
1130 stop service over more channels, learning from user feedback, and using that feedback to specify
1131 changes to the business and technology architectures being developed as longer term, strategic
1132 solutions

1133   *Transform*

1134   Finally, the program looks to build out the broader range of e-transformation projects, drive forward
1135   the migration of all major citizen-facing services towards the new one-stop channels, and complete
1136   the transition to the full strategic IT platform needed to guarantee future agility as business and
1137   customer priorities change.

Part III (b): Guidance on the TGF Customer Management Framework

Introduction

The TGF Customer Management Framework is in three main sections:

- Context
- Overview of key components in the TGF Customer Management Framework
- Detailed description of and guidance on the key components

Context

The first of the Guiding Principles identified in Component 1 of the TGF is:

> *"Develop a detailed and segmented understanding of your citizen and business customers:*
> - *Own the customer at the whole-of-government level;*
> - *Don't assume you know what users of your services think - research, research, research;*
> - *Invest in developing a real-time, event-level understanding of citizen and business interactions with government"*

Putting these principles into practice involves taking a holistic, market-driven approach to every step of the service design and delivery process. This in turn often requires new skills and management practices to be brought into government. The TGF Customer Management Framework draws together best practice on how to do this.
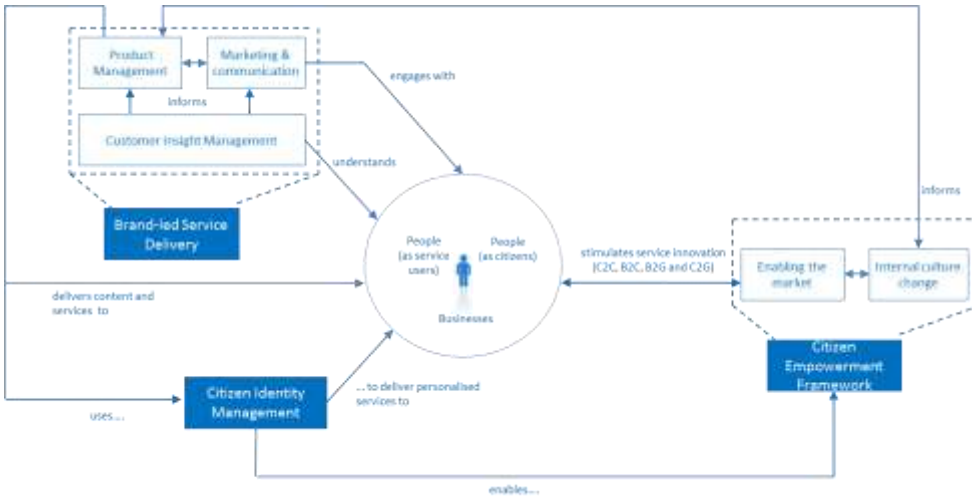
Overview of key components in the TGF Customer Management Framework

There are three key components of the TGF Customer Management Framework:

- Brand-led Service Delivery
- Identity Management
- Citizen Empowerment

A high level view of the logical relationships between these components is illustrated below.

1165
1166 Figure 17: *Overview of the Customer Management Framework*

Brand and Marketing Strategy

Marketing is critical to effective citizen service transformation, yet is something at which government traditionally does not excel. Often, marketing is fundamentally misunderstood within government - as being equivalent to advertising or perhaps, more broadly, as being equivalent to communication.

Properly understood, however, marketing is the process of:
- Understanding the target market for government services in all its breadth and complexity
- Learning what is needed in order to meet citizen needs
- Developing an offer for citizens and businesses that they will engage with
- Establishing a clear set of brand values for that offer - a set of underpinning statements that adequately describe what the product or service will deliver and how
- Delivering that offer though appropriate channels, in a way which fully delivers on the brand values
- Generating awareness about the offer
- Creating desire/demand for the offer
- Reminding people
- Changing the offer in the light of experience

This is the process that a brand-led consumer product company such as Proctor and Gamble or Virgin would go through when developing a new product. However, it is not typically how governments manage their own service development, and governments generally lack the skills to do it. Moreover, the challenge faced by governments is significantly more complex than any private sector company, given the greater range and complexity of services and governments need to provide a universal service rather than pick and choose its customers. Yet if governments are to succeed in the ambition of shifting service delivery decisively away from traditional channels to lower-cost digital channels, then these marketing challenges have to be met.

1192 And given the fact that a) citizen needs cut across organisational boundaries in government and b)
1193 the skills for delivering an effective brand-led marketing approach to service transformation will
1194 inevitably be in short supply, it is important that these challenges are addressed at a government-
1195 wide level.

1196 A TGF-conformant Transformation Program will establish government-wide processes for managing
1197 the three core elements of the TGF Brand-led Service Delivery Framework illustrated below:
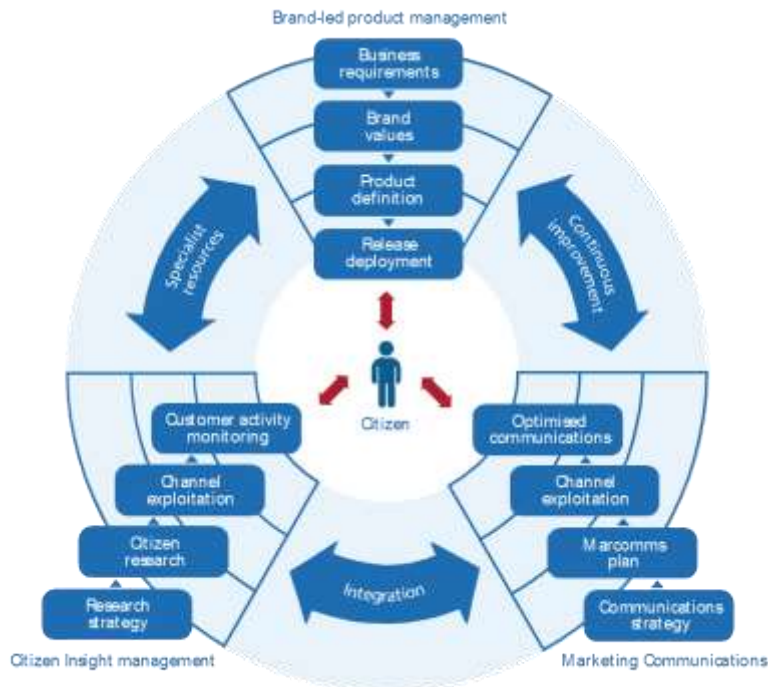
1198

1199 Figure 18: *Brand-led Service Delivery Framework*

1200 • Citizen insight
1201 • Brand-led product management
1202 • Marketing communications

1203 Citizen insight must inform all aspects of the process, and involves a comprehensive programme of
1204 qualitative and quantitative research to understand and segment the customer base for government
1205 services. The learnings from this need to be fed into a brand-led product management process - not
1206 as a one-off input of initial research, but through a continuous process of iterative design and
1207 customer testing. A key output from this will be a set of brand values for the service, which then
1208 need to drive all aspects of service delivery, and marketing communications for the service.

1209 This is an iterative process of continuous improvement, not a linear one. Continuous citizen insight
1210 research is needed to ensure that both the service delivery experience and the marcoms activity
1211 remain aligned with the brand values, through successive phases of release deployment. As the
1212 service is implemented, across a range of channels, best practice management information systems

1213 can be deployed to ensure that the Government now has real-time, event-level management
1214 information about the experience of all customers - which in turn provides a powerful feedback loop
1215 into further innovation in the service design.

1216 Often, this will require the Government to bring in specialist resources, because typically it may face
1217 significant gaps in terms of the people and skills needed to manage brand-led product development
1218 and marketing cycles of this nature.

Identity Management

1220 [Note: expand to include references to existing relevant IDM standards from OASIS and other SSOs]

Comment [PFB42]: Issue 19 - closed

1221 Identity management is a key enabler, yet something with which most governments struggle. At the
1222 heart of that struggle is often a failure to put the citizen at the centre of government's thinking about
1223 identity.

1224 A wide range of agencies, standards bodies and advocacy groups are deeply involved in many
1225 aspects of this work, from technical models for privacy management (such as the OASIS PMRM
1226 technical committee[16]) through to the business, legal and social issues around online identity
1227 assurance (such as promoted by Open Identity Exchange, OIX[17]). It is not the purpose of the
1228 Transformational Government Framework to address the details of identity management or
1229 recommend specific policies or approaches but rather to give high-level guidance on the main issues
1230 that a conformant program should seek to address.

Comment [PFB43]: Issue 4 - closed

1231 Identity is a complex, and by definition deeply personal, concept. As the following figure illustrates, a
1232 single citizen in fact has multiple, overlapping "identities".

---

[16] See http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=pmrm

[17] See http://openidentityexchange.org/
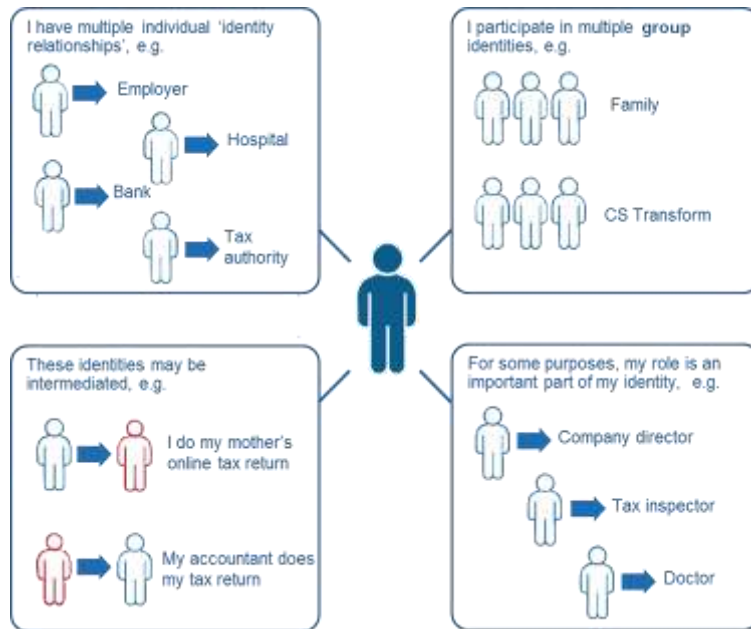
Figure 19: *Complexity of identities*

Each identity may be associated with different rights and permissions, even different addresses. These identities overlap, but in some cases the citizen may want to keep them separate in order to protect his or her privacy. At other times, the citizen may want them to be joined up, and be frustrated at constantly having to furnish government with the same information over and over again.

Governments have often struggled to manage this complexity. Typically, identity is defined separately in relation to each silo-based government service. Even countries which have traditionally had the simplicity of a single citizen identifier (such as Finland, where there has been a single population register since 1634), have tended to build up separate and inconsistent business processes for identity verification. And aAlthough the advent of e-Government held out the promise of significant simplification of identity management - bringing service improvement gains for the citizen and efficiency savings for the Government - in practice there remain significant barriers remain. These include legal barriers that have grown up over centuries of piecemeal approaches taken by public administrations (as well as, more recently, also by the private sector) and put in place often to protect individuals from the effects of equally piecemeal processes. As such the impact of any changes must be considered very carefully.

Many of the tools which governments have put in place to guarantee security in the online world (passwords, PINs, digital signatures etc), have in practice acted as barriers to take-up of online services. And attempts to join up databases to enable cross-government efficiencies and service improvements have often been met with mistrust and suspicion by citizens.

Increasingly, however, a set of best practices is emerging around the world which we believe represents a way forward for citizen service transformation, which is broadly applicable across a very wide range of governments.

1258 Key aspects of this are:

1259 *Business Architecture*

1260 Firstly, a business architecture for identity management which is based on federation between a
1261 wide range of trusted organisations (the Government, banks, employers etc), and a clear model for
1262 cross-trust between these organisations.

1263 *Technical Architecture*

1264 Secondly, a technology architecture to support this which does not rely on monolithic and potentially
1265 vulnerable large databases, but which, in line with the SOA paradigm, uses Internet-based gateway
1266 services to act as a broker between the different databases and IT systems of participants in the
1267 federated trust model.

> **Comment [PFB47]:** Issue 18 - closed

1268 *Citizen-centric Identity Model*

1269 Thirdly - and perhaps most importantly - a citizen service model for identity management which
1270 places citizens themselves directly in control of their own data, able to manage their own
1271 relationship with government – whether on their own behalf as citizens or in another identity
1272 relationship or intermediated role – and with clearly visible controls to reassure them that this is the
1273 case. This citizen-centric approach to identity management is illustrated in the figure below.

> **Comment [PFB48]:** Issue 12 - closed

1274
1275 Figure 20: *Overview of Citizen-Centric Identity Model*

1276 No one-Government has implemented all features of this approach, but all are being successfully
1277 deployed around the world, and together they represent our view of the approach to identity
1278 management which will best help deliver Transformational Government.

1279 ## Citizen Empowerment Framework

1280 We argued in Part I of the TGF that a defining feature of Transformational Government programs is
1281 that they focus on the "citizen" not the "customer" - that is, they seek to engage with citizens and
1282 businesses as owners of and participants in the creation of public services, not as passive recipients
1283 of services.

1284   What does this mean in practice?

1285   Citizen empowerment involves a set of changes which are much more fundamental than the online
1286   consultations and "e-participation" initiatives which characterised the first wave of e-Government
1287   programmes. It is also more fundamental than the application of Web 2.0the latest generation of
1288   technologies to government - although these such technologies do have a role to play.

1289   The key shift is to think of service delivery not as something which is done by government to citizens
1290   and businesses, but as something in which they citizen is anare active co-creators of services - or
1291   even where public services are delivered directly citizen-to-citizen, with no or minimal government
1292   involvement. Innovators in government who are making that shift are starting to develop a wide
1293   range of new ways to create public value and enhance services, as illustrated:
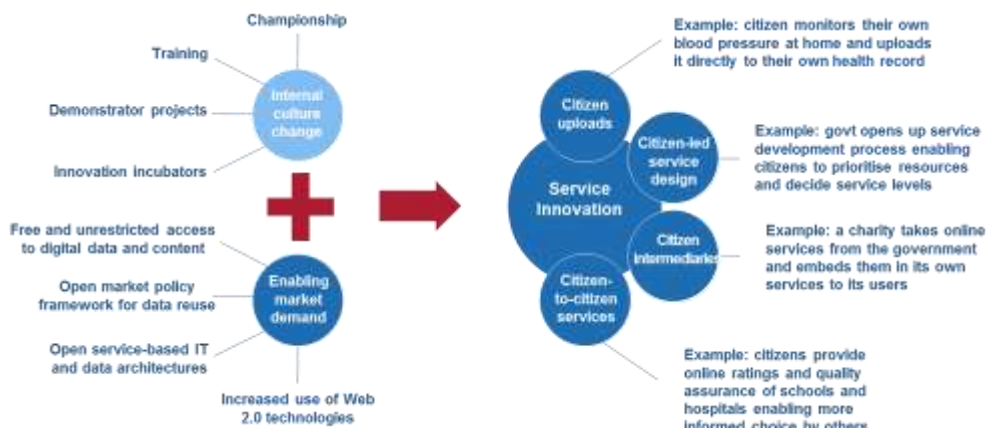
1294
1295   Figure 21: *Overview of Citizen Empowerment Framework*

1296   This figure also highlights two important enablers of this innovation, which we believe are important
1297   to address as part of a Transformational Government program:
1298   •   Action on the supply side within government, to help create a culture of open innovation within
1299   the public sector. Such a culture change - which reflects an increasing trend in the private sector
1300   to see external ideas and collaborations as being the key to successful innovation - is particularly
1301   challenging in the public sector given the strong tradition of internal control over decision-
1302   making and policy development. So pro-active change management is essential.
1303   •   Action to enable demand-side pull by citizens and third party organisations outside Government.
1304   Particularly important here is the principle that all non-personal data held by government should
1305   be open, public, easily reusable, and available at marginal cost - which for digital information
1306   means free. By opening up government data, content and services for reuse and repurposing by
1307   others, government can enable a level of service innovation and market reach that it could not
1308   hope to achieve on its own. Most governments also find that simply making data and content
1309   available in theory is not sufficient: in practice they also need to facilitate market-based public
1310   service delivery by:
1311   −   building a business model of rules and processes which enable a level-playing field for new
1312   market entrants (see the "Wholesale Intermediary Market" component of Part III (b))

1313   – establishing a service-~~based~~oriented technology architecture based around open standards
1314   and ~~Web 2.0~~ technologies which makes it easier in practical terms for third parties to re-
1315   purpose and repackage-Government content (see Part III (d)).

Comment [PFB51]: Nig, 15-03-2011

Part III (c): Guidance on the TGF Channel Management Framework

Introduction

The TGF Channel Management Framework is in two main sections:
- Context
- Overview of key components in the TGF Channel Management Framework

    Detailed description of and guidance on the key components

Context

Channel management is often a weak spot in government service delivery, with widespread duplication, inefficiency and lack of user-focus. Experience has shown the common pitfalls to include:

- Managing new, digital channels as "bolt-ons", with business and technical architectures which are entirely separate from traditional face-to-face or paper-based channels
- No common view of citizen service across multiple channels
- Operational practices, unit costs and service standards for many channels which fall well below standards set for those channels in the private sector
- A reliance on government-owned channels, with insufficient understanding of how to partner with private and voluntary sector organisations who have existing trusted channels to government customers
- Unproductive and costly competition among service delivery channels

Transformational Government programs seek to avoid these pitfalls, by building a channel management approach centred around the needs and behaviour of citizens and businesses.
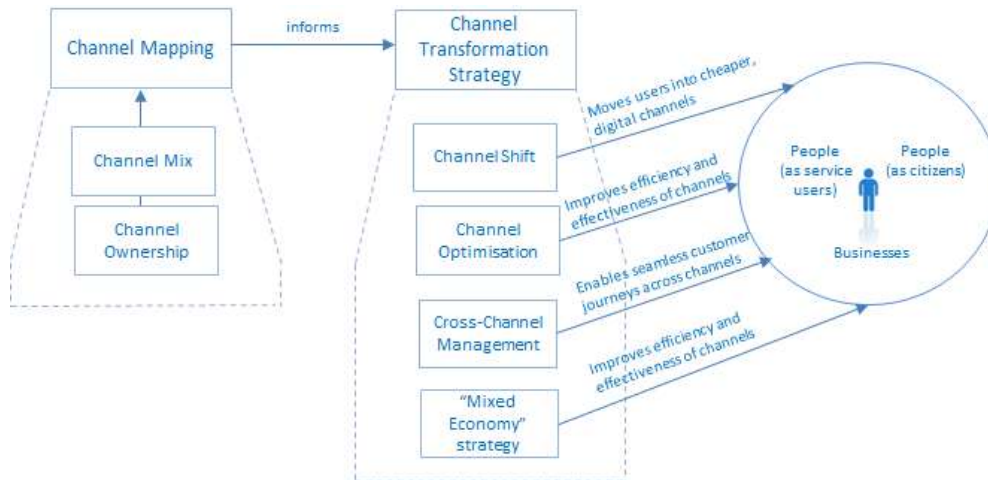
Overview of key components in the TGF Channel Management Framework

The two key elements of the approach recommended in the Transformational Government Framework are:

- **Channel Mapping:** a clear audit of what existing channels are currently used to deliver government services. The TGF Channel Mapping approach includes an analysis of these channels across two key dimensions: which delivery channels are being used ('channel mix') and who owns them ('channel ownership').
- **Channel ~~Management~~ Transformation Strategy:** the TGF helps build a new channel management approach centred around the needs and behaviour of citizens and businesses. The key components of such an approach include:
  - Channel Optimization
  - Channel Shift
  - Cross-Channel Management

1351   −   Development of a "mixed economy" in service provision through private and voluntary
1352   sector intermediaries.
1353 A high level view of the logical relationships between these components is illustrated below.

1354
1355 Figure 22: *Overview of Channel Management Framework*

Channel Mapping

1357 A vital first step in developing a citizen-centric channel management strategy is to carry out a
1358 mapping of existing delivery channels across government, and to put a cost to each transaction
1359 delivered through these channels based on standard industry assumptions. This will highlight
1360 duplication across government (for example, having multiple high-street locations in the same town
1361 serving different government departments or agencies), and the savings that can be achieved by
1362 joining government services together and using the most efficient delivery channel in each case.

1363 A common finding in channel audits of this type is that much customer contact between
1364 governments and citizens is unnecessary, hidden and uncosted. For example, many governments
1365 have literally thousands of public service telephone contact numbers.

1366 Much of the contact that results between citizen or business users and the Government is therefore:
1367 •   unnecessary - because the user is struggling to find the right place to get the service they need,
1368   resulting in multiple contacts before their need is finally resolved
1369 •   hidden and uncosted - because only some of these customer contacts are caught by existing
1370   management information systems. The rest are just lost within the broader operational
1371   structure and budget of government.

1372 A clear map of customer interactions by channel, and the true costs of these, therefore provides
1373 essential data in building the business case for service transformation.

1374 In undertaking this mapping, we recommend that a holistic approach is taken to understanding the
1375 range of channels through which government services are and could be delivered. Government
1376 services can be delivered through a wide range of different channels. It can be helpful to think of that
1377 range as varying across two key dimensions, as illustrated below:

1378 • **Channel mix:** that is, the physical type of channel being used. Traditionally, channels for
1379   government service delivery have included the face-to-face channel (through high-street and
1380   other locations), traditional mail and the traditional telephone. More recently, interactive voice
1381   recognition (IVR) and the Internet have become important channels. A key distinction is the
1382   extent to which the channel is based around self-service by the citizen, or requires some form of
1383   intermediation - either in person (e.g. the citizen visiting a government office or an official
1384   visiting the citizens in the community) or remotely (e.g. by telephone or email).
1385 • **Channel ownership**: it is important to understand, too, the variety of "channel ownership"
1386   options which are available. Traditionally, channels for government services have been branded
1387   as belonging to a specific government agency. Increasingly, governments looking to develop a
1388   citizen-centric approach have also started to badge these on a government-wide basis: either
1389   covering a single channel (such as a national government portal), or multiple channels (such as
1390   Service Canada, which spans walk-in offices, contact centres, and the web).
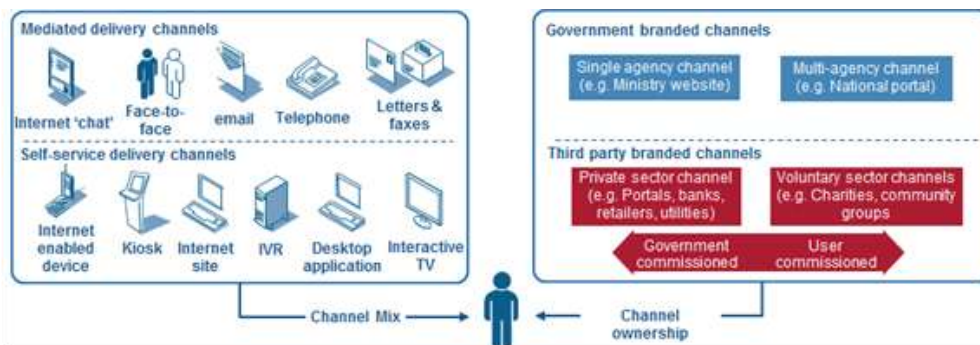
1391
1392 **Figure 23**: *Overview of Channel Mapping*

Channel Transformation Strategy

1394 Once a full Channel Mapping has captured the current channel mix and cost base, it is important to
1395 map out a strategy for the future desired channel mix, and the future customer experience over
1396 different channels.

1397 The key elements of this Channel Transformation Strategy are discussed below.

Channel Shift

1399 Successful private-sector businesses are more effective at this than government. They understand
1400 that each channel opens up different ways to create value for customers, so they differentiate
1401 services across channels. They also take a hard-nosed approach to channel management, with
1402 customers being incentivised to use the channels that are most efficient from a business point of
1403 view. And they realise that channel shift is a complicated process, which needs planning over a multi-
1404 year period.

1405 Transformational Government programs adopt a similar approach, setting out clear strategies for
1406 channel shift[7]. Typically though they recognise two distinct differences between the public and
1407 private sector:

1408   •   First, government has an obligation to provide services on a universal basis, so is not able to pick
1409   and choose which customers it will engage with through different channels. "Directed choice"
1410   towards cheaper channels is therefore the strategy selected for most citizen-facing services
1411   (although a number of governments are increasingly looking to make Internet-only services the
1412   norm for businesses).
1413   •   Second, in terms of the online channel, government is in a unique position compared with any
1414   other online service provider. Whereas an online bank or retailer is limited by the size of the
1415   online population in the market, a government can take action significantly to increase that
1416   online population. "Digital inclusion" policies, aimed at increasing the proportion of citizens who
1417   have access to and confidence in using online channels, are therefore an important part of
1418   government channel strategies which would not normally be seen in their private-sector
1419   counterparts.

Channel optimisation

1421 As well as seeking to shift future service delivery to an optimal channel mix, Transformational
1422 Government programs seek to optimise the performance of each individual channel. In the UK for
1423 example, a government-wide review[18] of customer contact found that contact centre performance
1424 lagged significantly behind private sector benchmarks, and that on average operational savings of
1425 25% could be achieved in public centre contact centres over a 3 year period by adopting best
1426 practices.

<div style="float:right; border:1px solid red;">Comment [PFB52]: Added citation (NG)</div>

Cross-Channel Service Management

1428 However, it is vital not to think about channel optimisation solely on a channel-by-channel basis.
1429 There are two imperatives for taking a cross-channel approach to service delivery:
1430   •   First, to improve service to citizens. Citizens do not want simply want services to be available
1431   through a choice of channels. Rather they want services to be delivered in an integrated way
1432   across channels. Transformational Government programs therefore focus on achieving an
1433   integrated view of customer interactions across all channels.
1434   •   Second, to reduce costs. A shared service approach to channel management can deliver
1435   significant efficiency savings. By building channel support services around a common, web-based
1436   infrastructure, governments can both reduce costs while also facilitating joined-up services.

Development of a Mixed Economy in Service Provision

1438 Finally, it is essential to recognise that a citizen-centric approach involves delivering services where
1439 citizens want to receive them - and this may often mean that it is important to deliver services
1440 through private or voluntary sector intermediaries.

1441 This is particularly important as services become digitised, potentially reducing the marginal costs of
1442 delivery to near zero and hence making it easier for third party organisations to bundle public sector
1443 services with their own service offerings. This can be challenging for governments, however, since
1444 for the first time it means that they are "competing" for customers with other organisations.

---

[18] *Service Transformation: A better service for citizens and businesses, a better deal for taxpayers*, see
http://webarchive.nationalarchives.gov.uk/+/http://www.hm-treasury.gov.uk/media/4/F/pbr06_varney_review.pdf

1445 Establishing clear ground rules for how this sort of mixed economy of service provision should work,
1446 on a basis that will encourage private and voluntary sector organisations to become actively
1447 involved, is therefore an important task for government in creating the policy framework for
1448 Transformational Government and SHOULD be addressed using the Franchise Marketplace Model
1449 outlined above.

Comment [PFB53]: Give some profile to the franchise model here (NG)

Part III (d): Guidance on the TGF Technology Management Framework

The TGF Technology Management Framework is in three main sections:

- Context
- Overview of key components in the TGF Technology Management Framework
- Detailed description of and guidance on the key components

Context

The transformations to business, customer and channel management described above require a new approach to technology and in particular a commitment to the paradigm and principles of Service Oriented Architecture (SOA) and SOA-based infrastructure, as defined in the OASIS 'Reference Model for Service-Oriented Architecture **[SOA-RM]**.

Transformational Government demands a single view of the citizen or business, delivered inside an integrated business and channels architecture. In terms of ICT, all of this requires governments to learn from private-sector best practice. Industry is moving towards a model of company-wide, service-orientated enterprise architecture, where common building blocks using open standards can be re-used to enable flexible and adaptive use of technology to react quickly to changing customer needs and demands. Increasingly, companies are gaining even greater efficiency benefits by managing these building blocks as a service, provided not only from within their own ICT architecture but also from within "the Cloud" - the dynamically-scalable set of private and public computing resources now being offered as a service over the Internet.

Governments are increasingly taking this 'building block' approach to technology development. Key building blocks such as ICT infrastructure, common data sets, and identity verification need to be co-ordinated effectively. While much can be learned from the private sector, simply importing industry practices will not solve this coordination problem within government.

Governments are taking different approaches to the co-ordination function: some build central infrastructure for use by all departments and agencies; others identify lead departments to build and implement common solutions; others have a more decentralised approach, allowing departments to develop their own solutions according to a common architecture and standard set. However, finding an effective approach which works within a specific government is vital, since without this sort of technology flexibility, then Transformational Government becomes impossible - or possible only at great expense and with significant wasteful and duplicated ICT expenditure.

Overview of key components in the TGF Technology Management Framework

The Technology Management Framework is modelled as one of the four TGF delivery processes, but it is concerned with more than "just" the delivery of services using ICT. Its focus on the SOA paradigm is key to an approach that puts citizens and businesses as customers at the centre of a service ecosystem with many stakeholders, roles and systems involved.

1487 The three key elements of the approach recommended in the Transformational Government
1488 Framework are:
1489 • Resources Management which underpins ecosystem governance
1490 • Ecosystem Participation
1491 • Realisation and governance of SOA-based ICT systems

1492 A high level view of the logical relationships between these components is illustrated below.
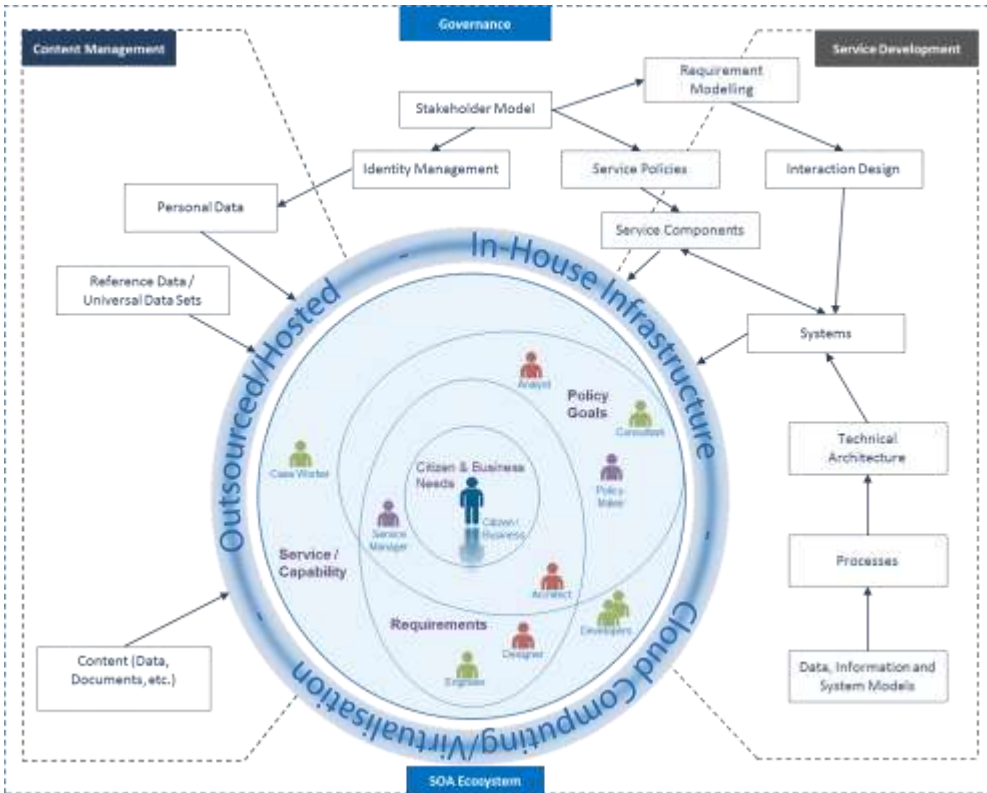
1493
1494 Figure 24: *Overview of Technology Management Framework*

Resources Management

1496 This entails the explicit identification and management of resources as valued assets, whether
1497 information resources (data sets, documents, models, processes, etc.) and technology 'soft products'
1498 (systems, applications and services.

Eco-system Participation

1500 Best practice technology management requires a clear model and understanding of the stakeholders,
1501 actors and systems that comprise the overall service ecosystem and their relationships to each other.
1502 The model must be maintained and updated as stakeholders change over time and over the course
1503 of any development effort thus ensuring that requirements are continually evaluated and revised.
1504

1505 Citizens and businesses, as potential customers, must be understood as stakeholders in the
1506 ecosystem with 'needs' (often imprecisely formulated) that they seek to satisfy through use of a
1507 service; but citizens and businesspeople are also human actors interacting with pieces of technology
1508 in precisely-defined interactions. These system-focussed interactions are a result of accurately
1509 modelling the processes required of both system and user in order to deliver a particular service
1510 capability conforming to explicit 'requirements'. Requirements in turn are revised and updated to
1511 reflect changes in stakeholder composition and concerns.

Comment [PFB58]: Mention both citizen and business and refine 'actor' as human, acting as citizens or in a role within business

1512 Stakeholders are clearly distinguished and modelled – including the fact that they play different roles
1513 in different contexts (and which therefore has implications for role-based authentication).
1514 Stakeholder composition is also a good predictor of project risk – understand and modelling
1515 stakeholder types helps identify and mitigate risk. Stakeholder modelling underlines that every
1516 participant in an ICT development project is implicitly an intermediary representing diverse
1517 stakeholder interests in the deployed service.

SOA-based system realisation and governance

1519 Service-Oriented Architecture (SOA) must be understood in its broadest sense – as a paradigm for
1520 organising and using capabilities distributed and managed across different ownership domains. In
1521 this sense, SOA is technology and platform agnostic and thus provides an appropriate foundation for
1522 the technology management framework.

1523 Disparate systems are weaved together as part of a coherent ecosystem while specific 'services',
1524 broken down into functional components, are identifiable as distinct from the underlying
1525 technologies that deliver them. This encourages ecosystem agility, allowing services to be mixed and
1526 matched, composed and re-used – it remains agile and flexible without being brittle, as with many
1527 systems where service functionality is tailored and tightly-coupled to addressing a specific problem.
1528 Ownership and governance – of information resources as well as ICT products – is federated across
1529 ownership boundaries and explicit service descriptions and contracts ensure that everyone knows
1530 the 'rules of engagement and use' when using any service.

1531 Key concerns of such an approach include:
1532 – SOA technical architecture and component service ("building block") realisation and re-use;
1533 – Service policies;
1534 – Identity Management;
1535 – Cloud Computing (Service and Infrastructure Virtualisation);
1536 – Interaction Design, based on end-user needs

1537 The TGF recommended approach is set out in the TGF "**Technology Management Framework**" at
1538 Appendix D to this document.

Comment [PFB59]: Issue 9 - closed

This is a Non-Standards Track Work Product.
The patent provisions of the OASIS IPR Policy do not apply.

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Participants:

Revision History

1564

1565 17-03-2011: (compared to Working Draft 02) Finalised remaining edits agreed by TC at adoption;
1566 Update of ToC; Numbering of Figures