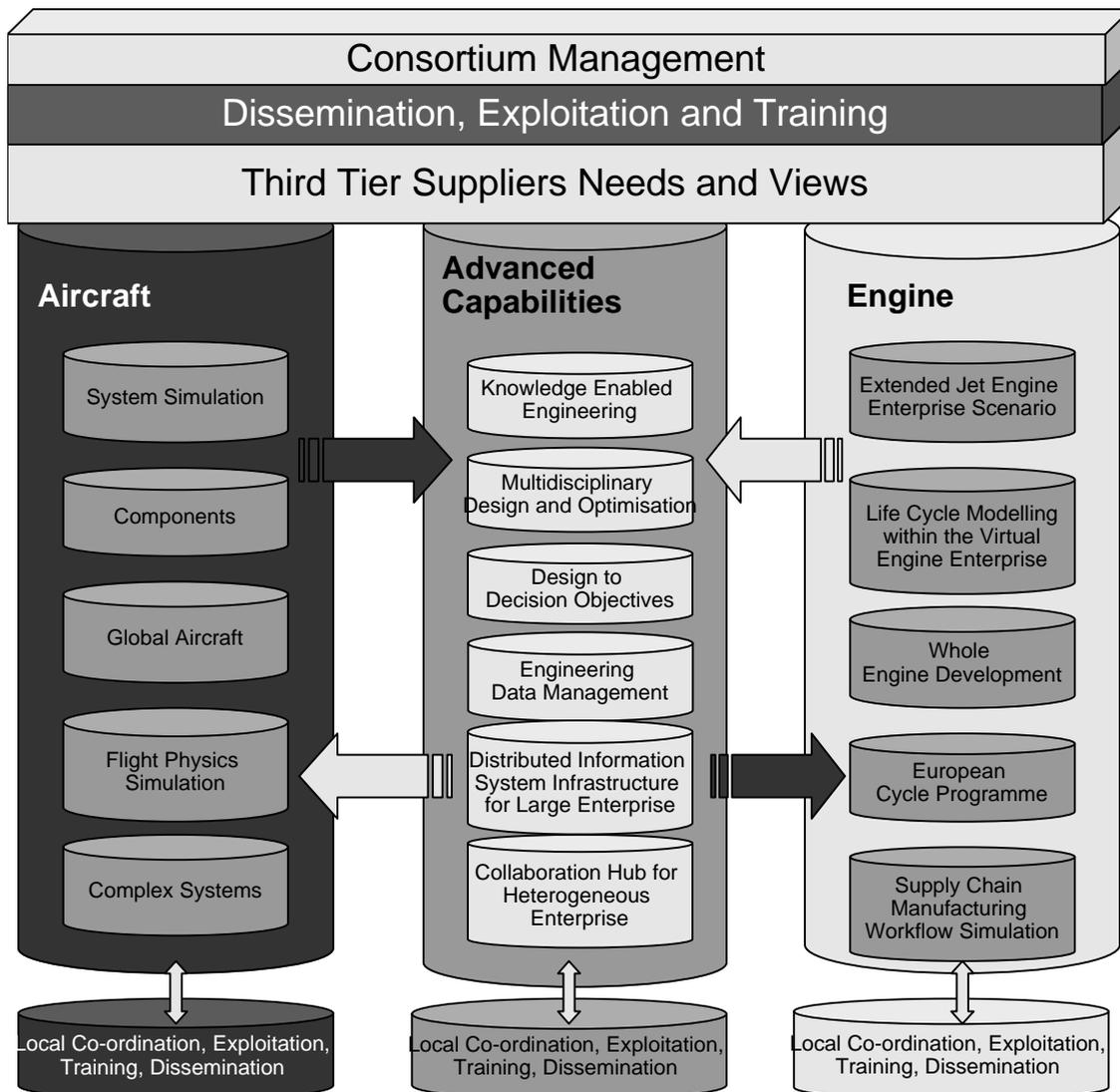


VIVACE – The new Virtual Aeronautical Enterprise

VIVACE (Value Improvement through a Virtual Aeronautical Collaborative Enterprise) is a newly launched integrated R&T project co-funded by the European Commission in the sixth Framework Programme under the leadership of Airbus. The project is planned to run for 4 years starting in January 2004 with an overall budget of around 70 million euros, of which Airbus' share will be about 23%. The remainder of the budget will be shared between some 52 companies and institutions that cooperate in the project. Partner companies include amongst others Rolls-Royce, SNECMA, Thales, Dassault

Aviation, Avio, MTU, Messier-Dowty and Volvo Aero. All VIVACE objectives and deliverables are linked to one or more of the "Vision 2020" objectives that were formulated by ACARE, the "Advisory Council for Aeronautics Research in Europe". (Reminder for the readers: ACARE defined five major strategic goals that need to be achieved by 2020 to provide more affordable, cleaner, safer and more secure air travel – "Cheaper and passenger friendly air travel" – "Reduction of atmospheric emissions" – "Reduction of Noise" – "Enhanced safety and

Security" – "Increased capacity and efficiency of the Air Transport System"). In particular, VIVACE intends to achieve a 5% cost reduction in aircraft development and a 5% reduction of the development phase of a new aircraft design combined with a contribution to a 30% reduction in the lead time and 50% reduction in development costs for a new or derivative gas turbine. The results will be achieved through a re-engineering and optimisation of the entire design process by modelling and simulating in an advanced concurrent engineering environment. The

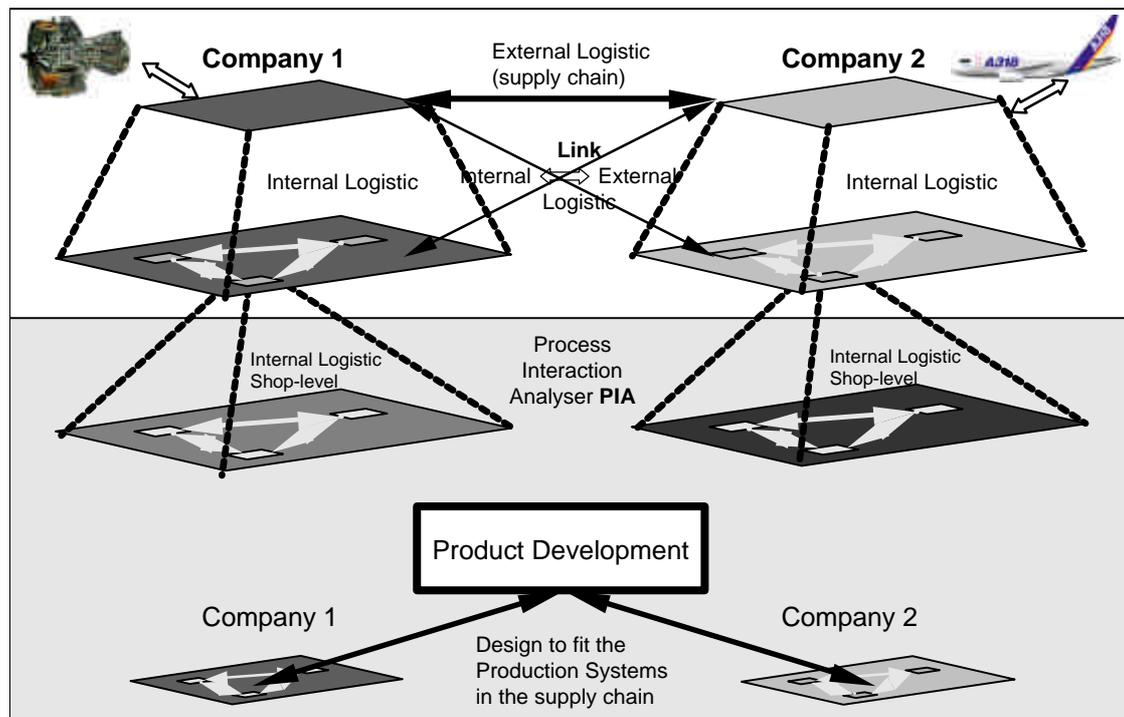


project is closely linked to the ACE (Airbus Concurrent Engineering) programme. VIVACE consists of three technical sub-projects:

Virtual Aircraft - a specific global product work area that develops the different elements of the aircraft, and works around the products for

Advanced Capabilities - a key integrating work area that develops common tools, methodologies and guidelines to be shared among the developments in the previous two work areas that provides for further integration of these two. The main result of VIVACE

ality and components for each phase of the product-engineering life cycle. Most of the VIVACE results should be available in time to be used by the development teams of the next Airbus product after A380 and A400M. The VIVACE tools will provide the European



design, modelling, interfacing and testing.

Virtual Engine - a specific global product work area that develops the different engine modules of the aircraft propulsion system and key areas of multidisciplinary optimisation, knowledge management and collaborative enterprises.

will be an Aeronautical Collaborative Design Environment and associated processes, models and methods. This environment will support the design of an aircraft and its engines in its entirety by providing to the aeronautics supply chain in an extended enterprise virtual products with all requested function-

Aeronautics Industry with the best knowledge possible about the complete product prior to its development, thus reducing the final cost of the product and accelerating the response time to market.

Philippe Homsy, EODE
 Tel. +33 6 16 39 41 50 /
 Jean-Claude Dunyach,
 EODMW
 Tel. +33 5 61 18 86 38