



Forum 1 - WP0.3 - 3rd Tier suppliers

An introduction to the work associated with third tier or smaller supply companies In VIVACE.

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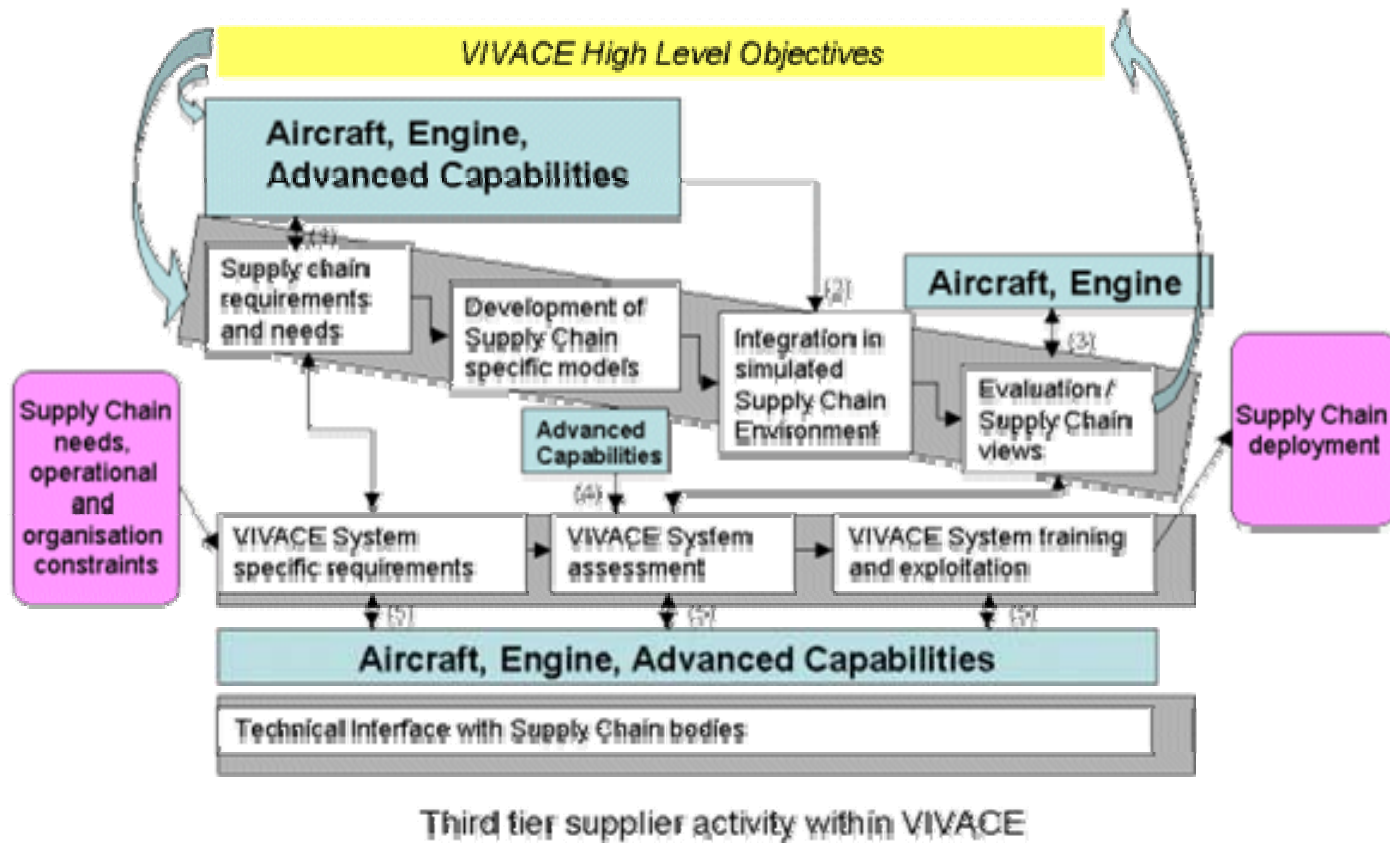
Content :

- Scope of Workpackage
- Overview of methods being applied
- Initial vision of the evolving business environment



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VIVACE has specific areas focussing on smaller companies operating in the Aeronautics environment.





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Scope

The scope of the programme for smaller (third tier) is :




- Requirements capture for 3rd tier suppliers
- Assessment of VIVACE methods
- IT Security assessments and recommendations
- Dissemination material from the assessments of VIVACE methods and recommendations.

Presentations within this session of Forum 1, will be completed on all of these subjects.



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The objective of the work package is as follows :

- Assess the needs of third tier suppliers, in relation to the Technologies and methods that relate to collaborative and virtual engineering. 
 - Provide the requirements to other workpackages for use in the research being completed in VIVACE. 
 - Assess the methods and recommendations from VIVACE, and the Implications to 3rd tier suppliers and the future supply chain.
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- Assess the IT Security implications for smaller companies operating In the collaborative and virtual engineering environment. 
 - Support the VIVACE dissemination programme with the results from the Work being completed.

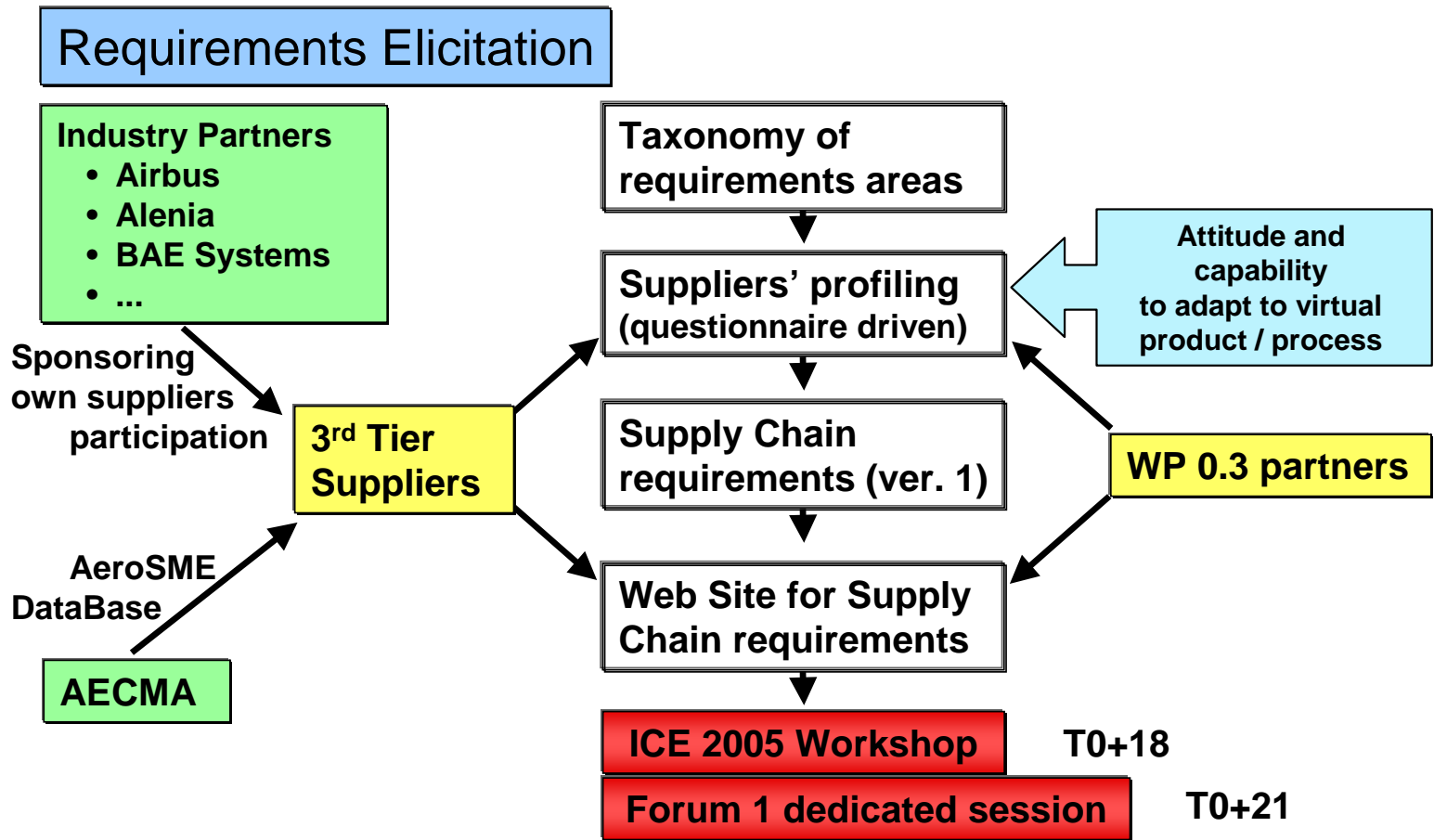


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Methods

A two part process will be applied

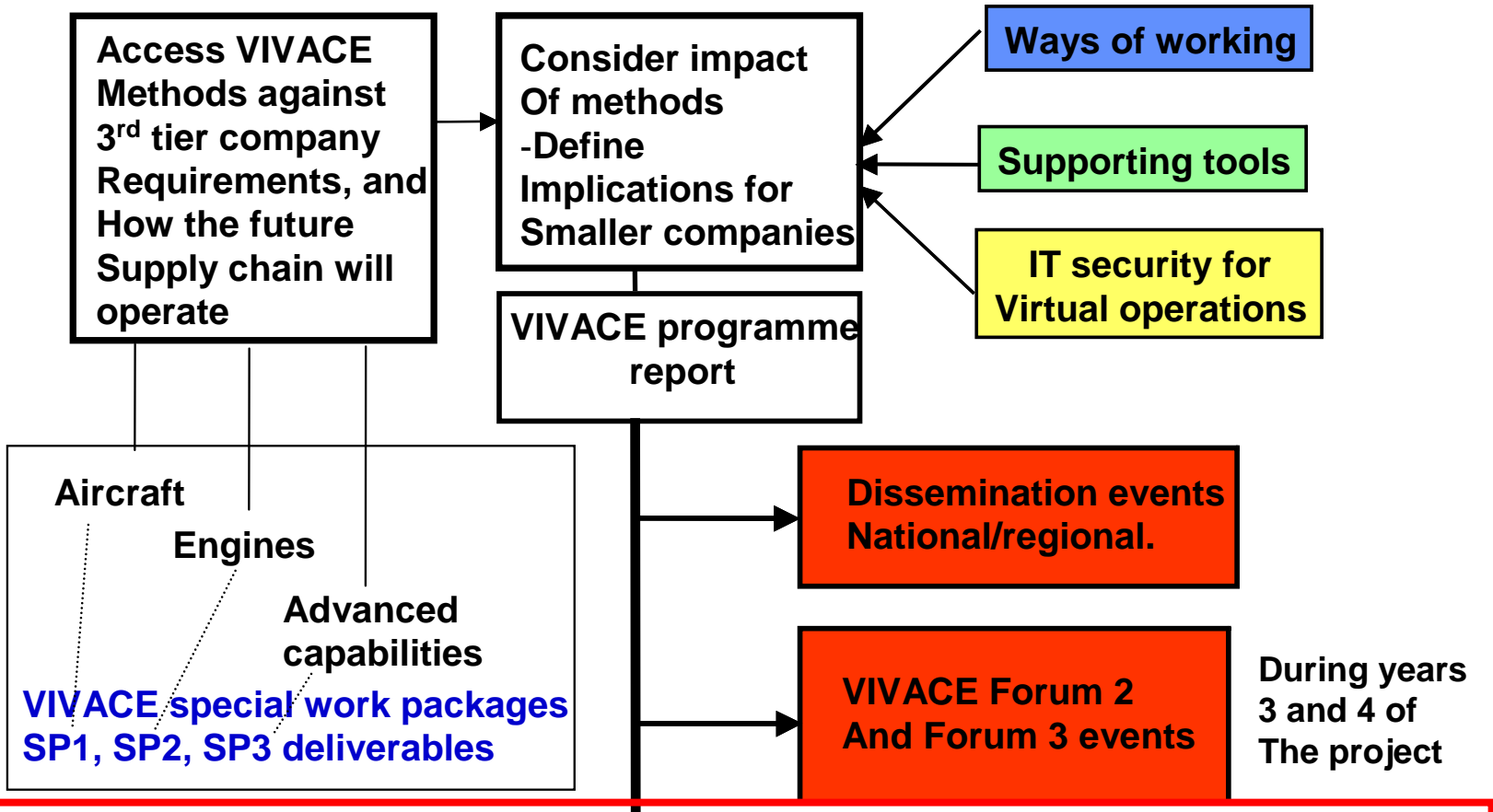
1. Requirements Elicitation





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2. Methods analysis against requirements.



VIVACE 3rd tier company website <http://www.vivaceproject.com/AeroSupply/>



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Future business environment.

Initial reviews of the expected 'to be' environment have been made from material available at M12 (Dec 2004)

Main themes : Business

- Greater integration of operations at all levels, to achieve efficiency of development for the complexity of product and functions in shared environments.

- More supply chain simulation is likely to be used to optimise the way the supply chain operates against the marketplace and Market Scenarios.

Hence third tier suppliers will need to understand how they are involved in the supply chain modelling process, and cost analysis and the modelling against the scenarios that reflect the marketplace and value streams to satisfy customer needs, and work with clients.



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- Acceptance and management of risk is a key issue associated with The business models, which supports aeronautical design/development production and services being offered. It may require clustering or greater Amalgamation of organisations to support the supply chain.
- Management of knowledge is a key issue, integration of suppliers into Portals allowing access to information and expertise to support their activities and integration within the supply chain.
- These issues require contractual vehicles to be in place to support the Integration within the supply chain, and protection and application of IPR, and consideration of how risk may be managed.



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Main themes : Cost modelling.

- Cost modelling is an important part of the process of defining Products with optimised life cycle cost.

Modelling is based upon common architectures, and parameters for modelling. This requires more integrated activities across the supply chain to model and optimise costs against design, and manage against Supply strategies but requires good supply relationships to model them and support the design options to design decisions process in relation to Pre defined constraints, requirements, and acceptable design criteria.



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Main themes : Collaborative engineering

- Collaborative engineering effects all aspects of operations in the shared data environment, and the design life cycle.
The use of common tools by acquisition, or access via primes and Network will be a key function in the future supply chain Operation. Such tools that may be considered are DOORS for requirements Capture and development programme verification, various design packages such as CATIA, Pro Eng, etc, common PDM Tools, and translators such as STEP, or the Product Life Cycle Support STEP for support data.
- Web enabled Collaborative hubs for data transaction and management and Knowledge Management, to operate the shared data environments and Supported by workflow techniques providing cost effective options for smaller Organisations operating in Aerospace supply chains.



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Vision of future Aeronautical supply chain and for smaller companies within the supply chain.

- Supply chains will become increasingly strategic and integrated.

This will require suppliers to be involved more closely in risk

Management, and value stream evaluations.

- Virtual design and development, with associated data hubs and web enabled methods, which will allow suppliers to operate in these environments, and supply chains to consider the wider needs of other Organisations.



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- Increasingly the new business environment is based upon the supply of services where possible as a means of managing risk, focussing expertise, and outsourcing as a cost reduction mechanism. This impacts what the supply chain delivers and how.
- Agility to meet new market demands, consider and develop innovative approaches.
- A challenging combination of issues are emerging for smaller companies, But equally large enterprises have to consider how they will involve smaller companies, the environment everyone operates in to get the best results for the products and the technologies and processes applied to deliver them.



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Way ahead.

Further evaluations of the evolving VIVACE methods will be undertaken later in the programme against the range of themes identified to provide recommendations and areas for smaller organisations to consider how they will need to operate in the future supply chain and integrated environment.

It is also planned to integrate with organisations such as AeroSME to disseminate information.