SESP 2008

Panel discussion on Reference Architecture

SPACEBEL's point of view (effects)

- → of a future reference architecture, as a supplier.

- Architecture –
  - Domain knowledge – Business impact (organisation, breakdown)
    - Allow a common understanding of the domain
    - Ease the information exchange between the stakeholders
  - System evolution, not to be prevented – take into account as much as feasible
  - One or more architectures?

- Capitalisation –
  - Reuse from project to project and phase to phase
  - Create a repository of models?
    - Validation level
    - Access & provision (freeware, license, cost,...)
    - Maintenance

- Technology –
  - Encourage new technologies usage (MDA, SMP2, ...) → improve processes
  - Define new business technology (e.g. drag & drop for building a satellite)

Benefits for SPACEBEL

- → of a future reference architecture, as a supplier.

- Architecture
  - Satellite - mainly concerns the agencies and the primes.
  - Sub-domains & components – the reference architecture must take into account specific supplier competences (e.g. SPACEBEL for the onboard computer models).

- Capitalisation
  - As subsystem/component model developer, providing reference architecture building blocks
    - Assessment depends on the business model (e.g. IP rights?)
    - Promote financial competition
  - As subsystem/component model supplier (as COTS)
    - Depend on the specific domain
  - As simulator provider, Optimise the overall process productivity for model development and models integration (extends similar to existing processes in ESA & CNES missions).

- Technology
  - Use them to provide benefits to the stakeholders (e.g. improve productivity, reduce risks and repetitive work ...)