

Panel 1: Competition or Joining Forces?

Competition

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THE COST TO MODIFY AN OPEN SOURCE TOOL WON'T BE LOWER THAN ADAPTING AN RATIONALIZE THE USAGE OF A COTS TOOL. - MATHWORKS -

OPEN-SOURCE IS NOT FREE! USE COTS SOLUTIONS AND CUSTOMIZE IT. WE CAN OFFER CONTROL OVER YOUR NEEDS - MATHWORKS -

Spend Resources in Harmonisation Discussions

More alternatives Evolution

SIMS contain "Business models" - FREE, FALSE? IS IT JUSTIFIED TO CARRY THE COST OF OWNERSHIP TO KEEP MY OWN ONBOARD SW UNDOCTORED? HOW MUCH IS A CONTROLLER ALGORITHM WORTH W.R.T. COST OF VALIDATING A SIMULATOR

Against who?

Use

use resources for new Features instead Maintenance of several Solutions

Industrials need competitive advantage => Competition

Joining forces in the specification but competing in the development.

- Most time and money is spent due to gaps in the system or bad specifications.
- But market evolves when there is competition

Joined forces for new areas of interest

Consolidate

Key question is to identify key differentiating business value => kept internal other can/should be shared

Process/Governance

Joined Model Development Tools

Own Products for Primes & Agencies + Ref. Solution for ESA & SMEs

KEY PLAYERS MUST ENFORCE VENDORS TO WORK TOGETHER & ENSURE INTEROPERABILITY

Provide Open Source Reference Solution but Build own implementation for specific Solutions

Yes, but first we need a joint vision

Join for => Open Source

Joining: We know this in the way! BUT UTOPIA

Competition: No we need at least common values

OPEN SOURCE, GREAT! GOVERNANCE?

Open Tool Chains/ OSS / Shared Models => enabling innovation

Competition is a tremendous stimulus for innovation BUT they have to be proper competitors

FOR RATIONISM TO BE SUCCESSFUL, PRIMES AND MAJOR STAKEHOLDERS MUST BE PREPARED (HAVE THE WILL) TO RELINQUISH THEIR USAGE OF THEIR OWN TOOLS AND METHODOLOGIES.

Communication overhead Considerations

1 Day develop => 5 days to explain to others

Co-operation
- Common Standard
- Openness
But skill separate

In general, the approach of Joining Forces is welcomed, however accompanied by a number of disclaimers.

At the level of primes competition is envisaged, as simulation provides a differentiating business value. However, for SME not having the resources to develop entire solutions from scratch, reference implementations would be helpful. Competition at the lower levels should also be encouraged, as small companies can be more flexible and may lead innovation in specific areas.

Joining Forces is identified as beneficial especially for innovative developments, not yet covered by the existing tools. Areas such as Model Development Tools, Open Tool Chains and Shared Models we identified having potential for Joining Forces. Before developments can take place, reference architectures shall be agreed and possible standards shall be defined. Also, interoperability of various tool chains shall be ensured.

Open Source has been suggested, especially applicable to reference implementations. However, the governance of Open Source developments has to be considered. Furthermore, Open Source does not mean it will come at no cost, and the usage of COTS products may sometimes be more efficient than tailoring Open Source developments.