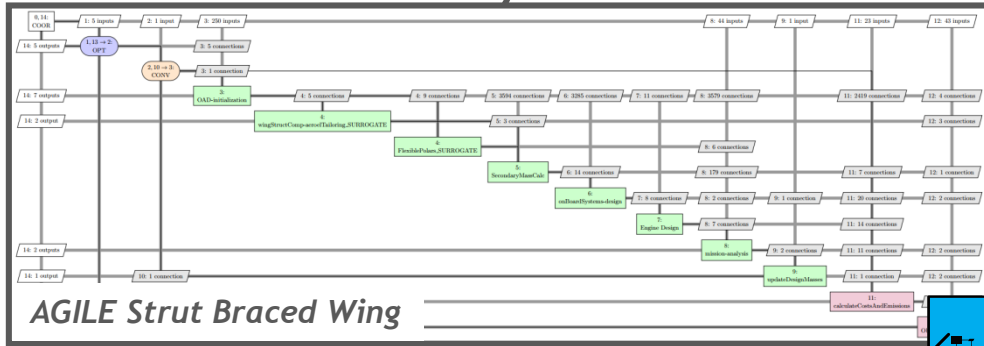


Assemble and Execute MDO Strategy From XDSM to RCE workflow

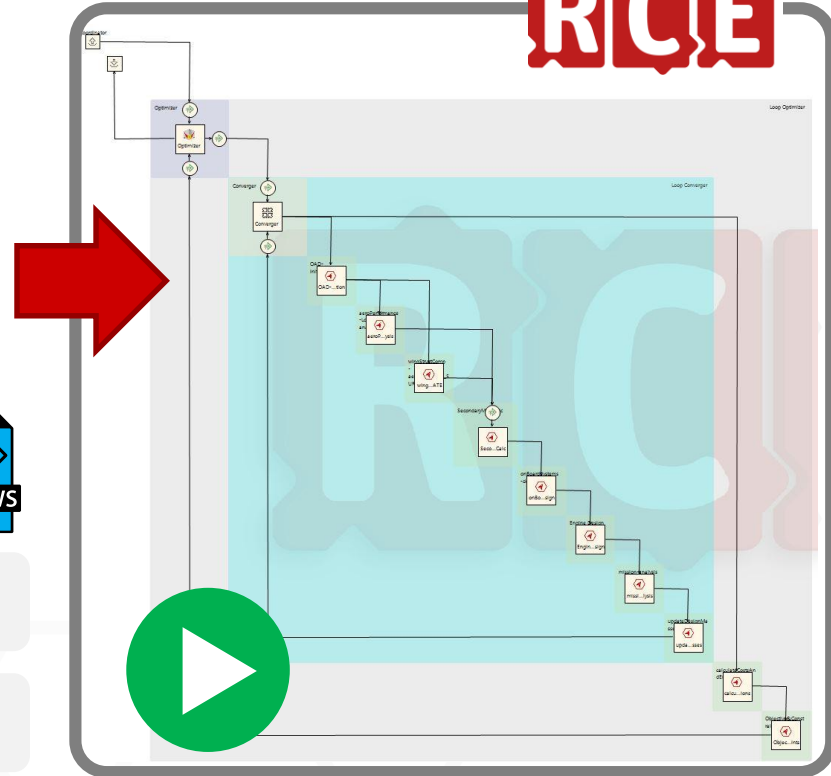


XDSM representation in VISTOMS



Stored as 

- **Assemble** the design process in the integration platform
- **Execute** the obtained workflow



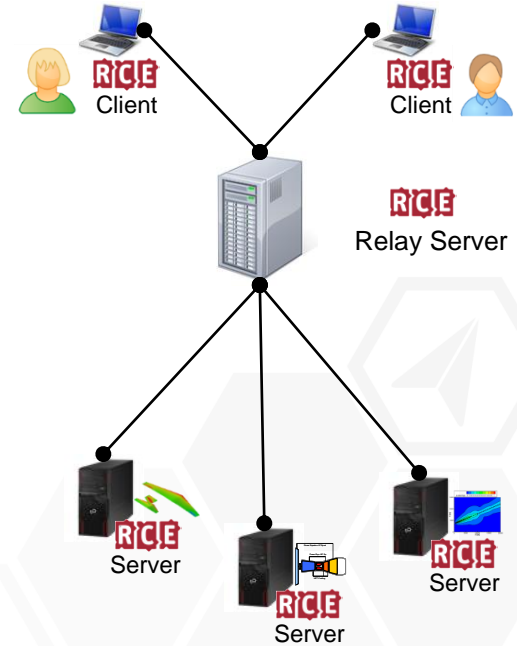
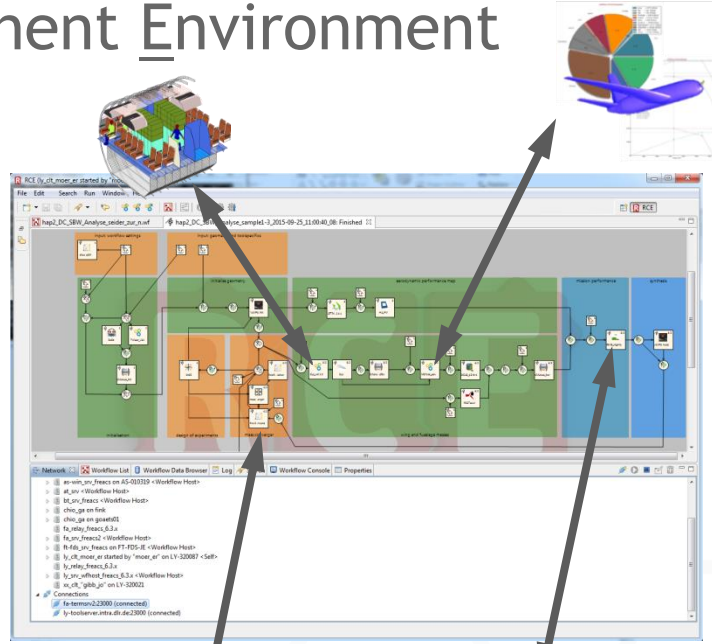
AGILE - The next generation of collaborative MDO



Process Orchestration: RCE Remote Component Environment



- Design Automation
- Workflow Orchestration
- DOE\Optimization\etc.
- Distributed architecture
- Developed @DLR
- CPACS handling features
- Open source:
<http://rcenvironment.de>



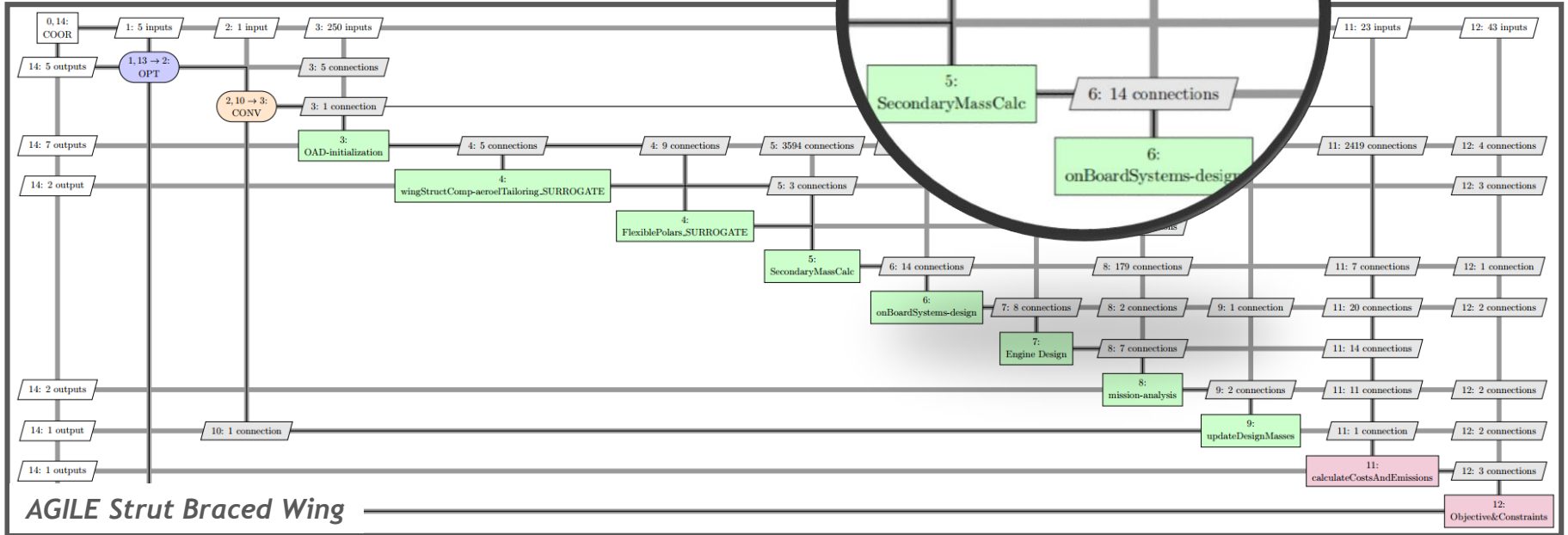
Tools remain on owners' servers. Exchange of input and output in CPACS format via the network.

AGILE - The next generation of collaborative MDO



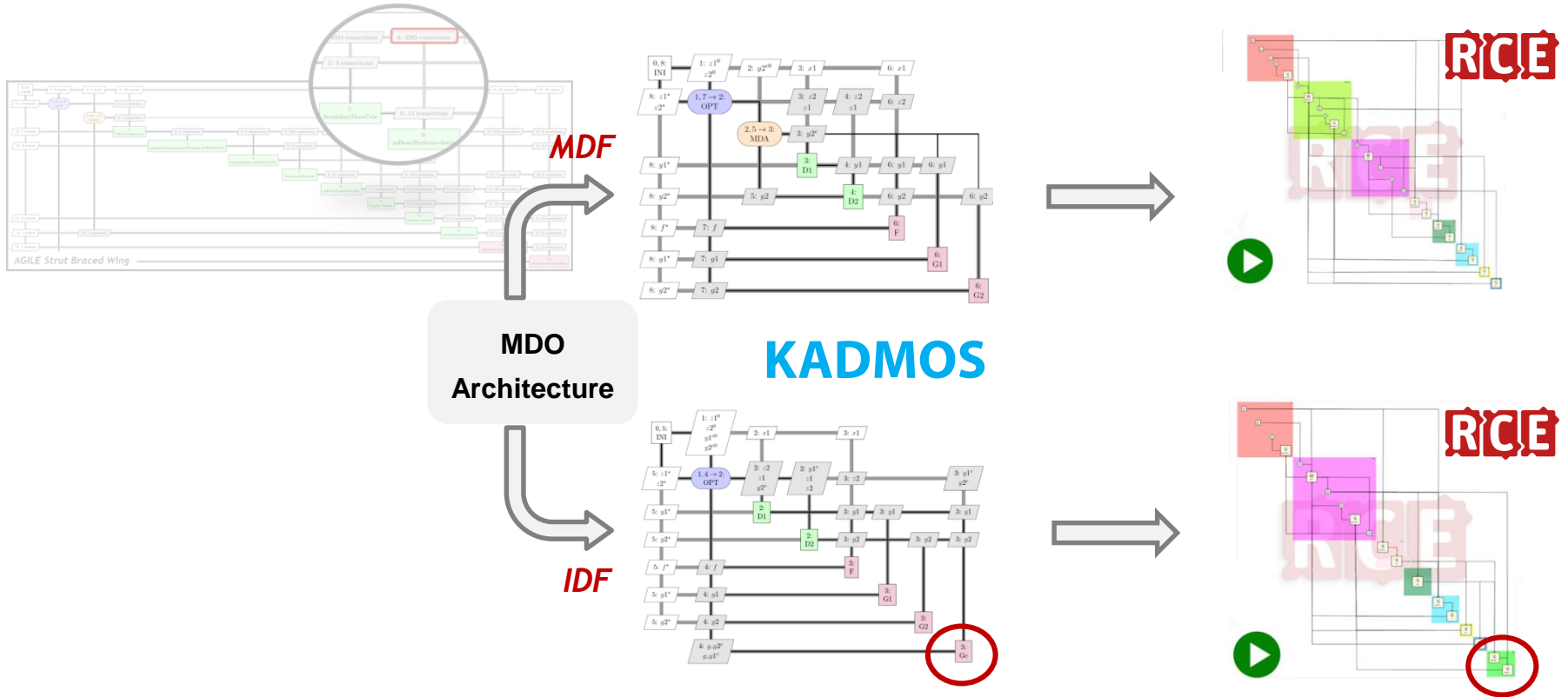
Design Process Automation

High number of connections among tools



AGILE - The next generation of collaborative MDO

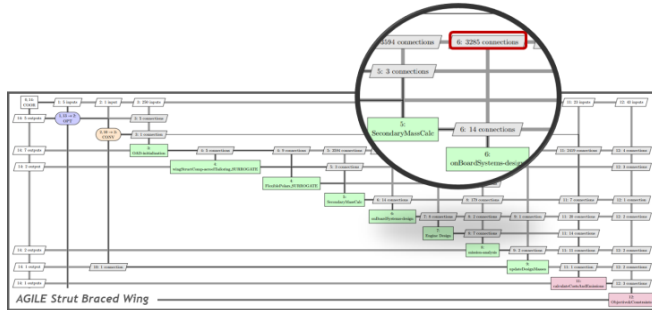
Design Process Automation



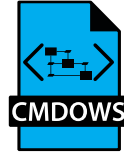
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Design Process Automation

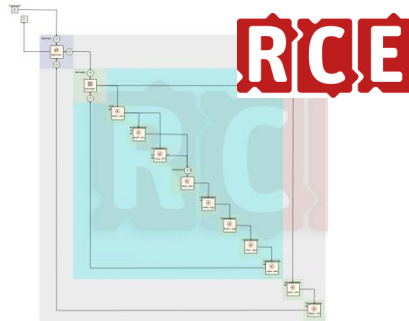
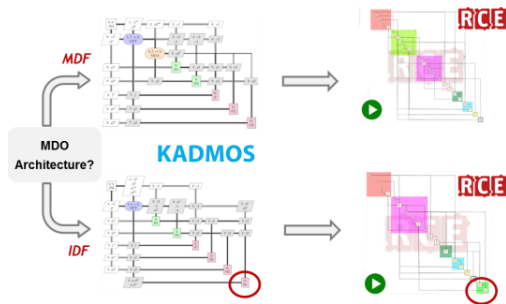


- High number of connections among tools
- Change of tools and/or process architecture



Common MDO
Workflow Schema

**Automated
Translation**



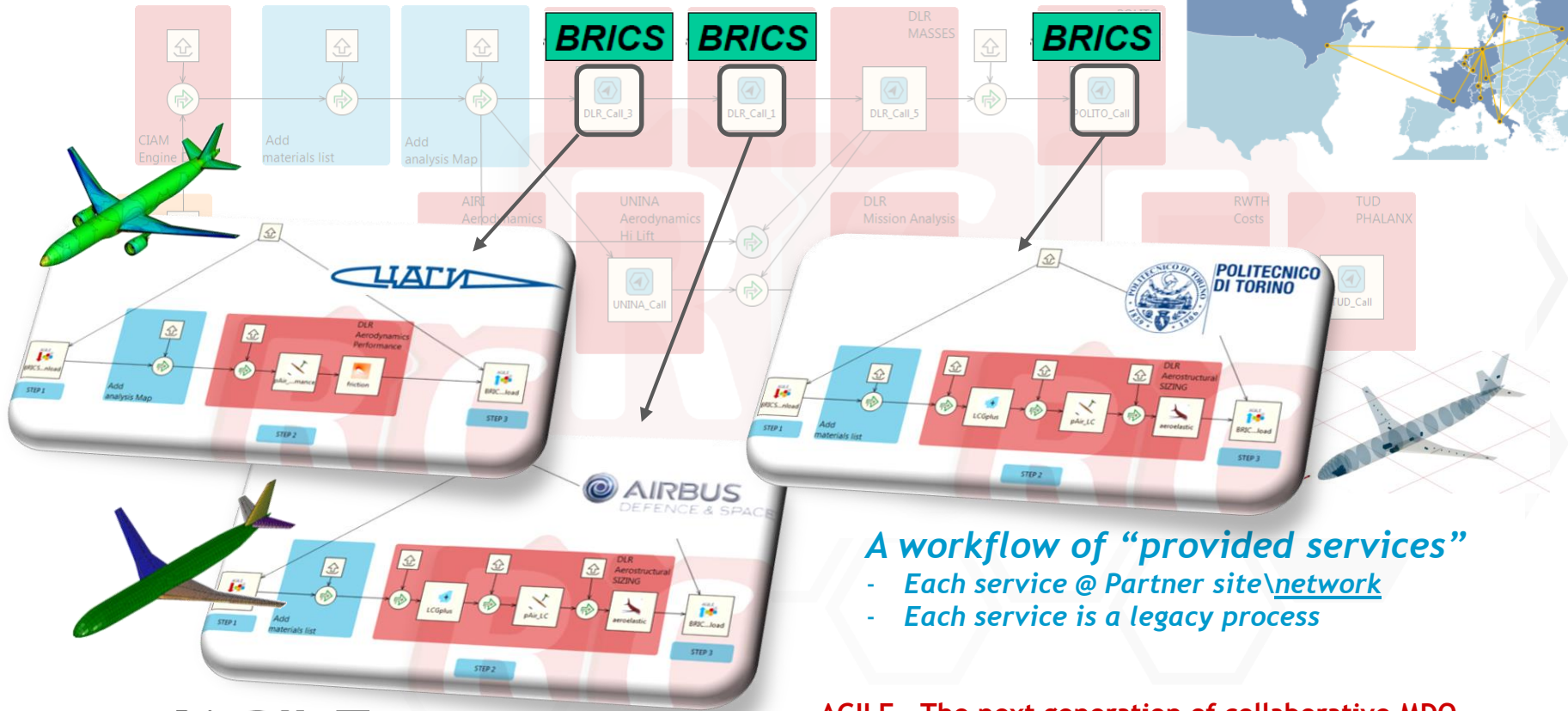
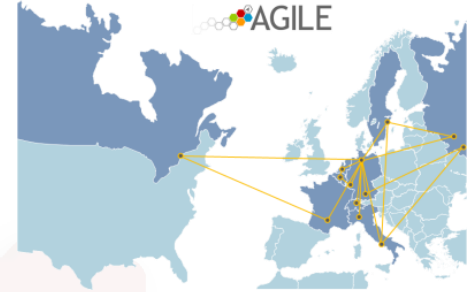
BENEFITS

- Increases reliability of design process implementation
- Allows fast and fully automatic reconfiguration of the design strategy, according to changes in the MDO architecture or in the available tools

AGILE - The next generation of collaborative MDO



AGILE - Service Oriented Architecture



A workflow of “provided services”

- Each service @ Partner site\network
- Each service is a legacy process

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