



Strathprints Institutional Repository

Vuletic, Tijana and Wang, Wenjuan and Duffy, Alexander (2014) *Enhancing competitive advantage for European maritime sector*. In: Transport Research Arena (TRA2014), 2014-04-14 - 2014-04-17, Paris.

Strathprints is designed to allow users to access the research output of the University of Strathclyde. Copyright © and Moral Rights for the papers on this site are retained by the individual authors and/or other copyright owners. You may not engage in further distribution of the material for any profitmaking activities or any commercial gain. You may freely distribute both the url (<http://strathprints.strath.ac.uk/>) and the content of this paper for research or study, educational, or not-for-profit purposes without prior permission or charge.

Any correspondence concerning this service should be sent to Strathprints administrator: <mailto:strathprints@strath.ac.uk>

About EuroVIP

EuroVIP aims to:

“improve the competitive position of European maritime SMEs through the creation of effective collaborative and co-ordinated partnerships for the exchange of service, technology and information advances and innovations from industry and academia”

Supporting means: EMCP

European Maritime Collaboration Portal (EMCP) is a web-based facility providing a unified search and retrieval mechanism of available resources (innovative service and technologies), and configuration of partnership.

Used to forge links between collaborators and disseminate project results to a larger audience, it is designed specifically for European maritime community to enhance knowledge exchange, technology exchange and enable collaboration patterns identification.



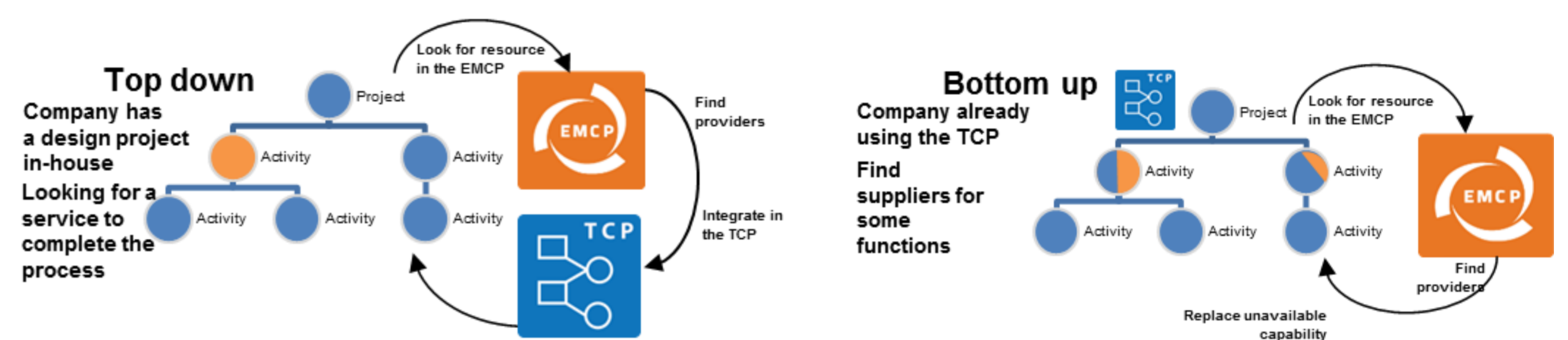
<http://portal.euro-vip.eu>

Collaboration process

No TCP	Secure area in the EMCP used for data exchange and the negotiation process	Level 1
Limited use of TCP: results of collaboration exchanged using XML files	Secure area in the EMCP used for data exchange and the negotiation process; coordinating XML file transfer	Level 2
Partners have access to TCP; info exchanged through XML files; higher level of control over process	Secure area in the EMCP used for data exchange and the negotiation process; coordinating XML file transfer	Level 3
Collaboration mostly performed through TCP; partners have access to TCP; user has access to providers VPN network and triggers execution of actions	Use EMCP to Search partner	Level 4

Four levels of collaboration

Engaging the TCP and the EMCP to different degrees allows enterprises a flexibility of collaboration. From engaging only the EMCP to engaging mainly the TCP with limited use of the EMCP, enterprises can adopt four different levels of collaboration.



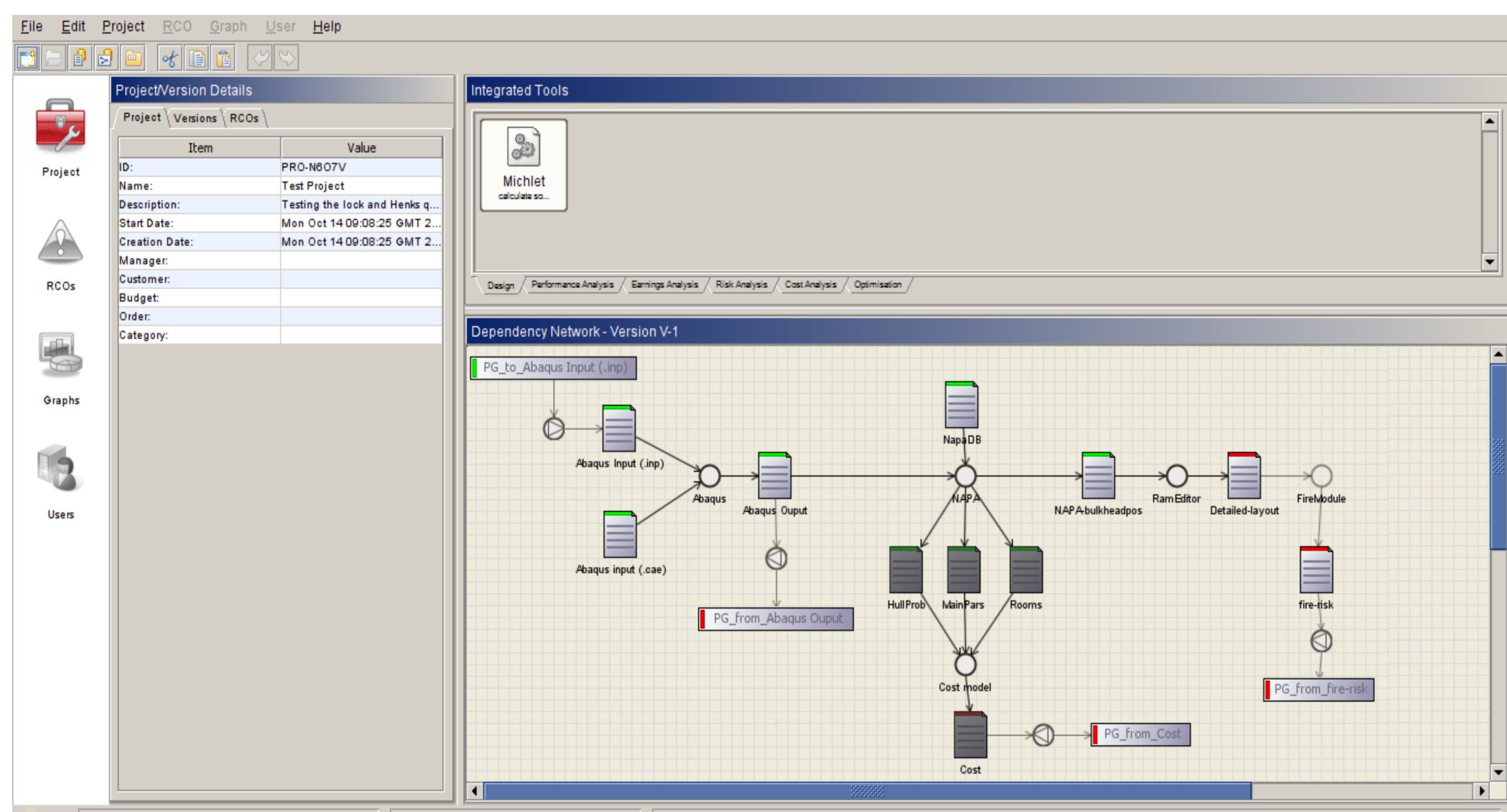
Two modes of collaboration

Top down mode: Enterprises already have planned business activities. They first look up service providers from the EMCP, then integrate the activities through the TCP.

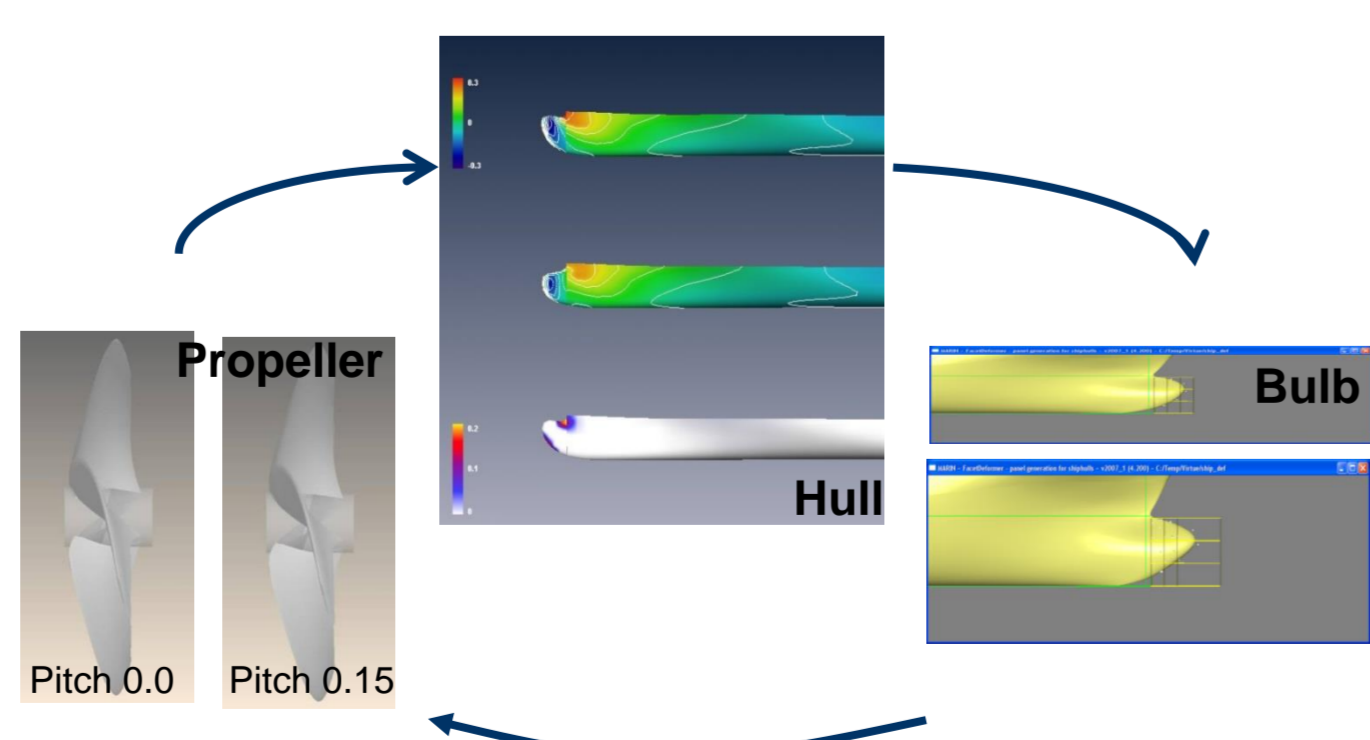
Bottom up mode: Enterprises already deployed the TCP for collaboration. However, they need alternative providers. So they look up new providers from the EMCP, and then integrate them in their TCP process.

Supporting means: TCP

Technical Collaboration Platform (TCP) provides an integrated collaborative working environment and enables different types of tools to operate in a unified and holistic manner for multi-disciplinary design and optimisation.



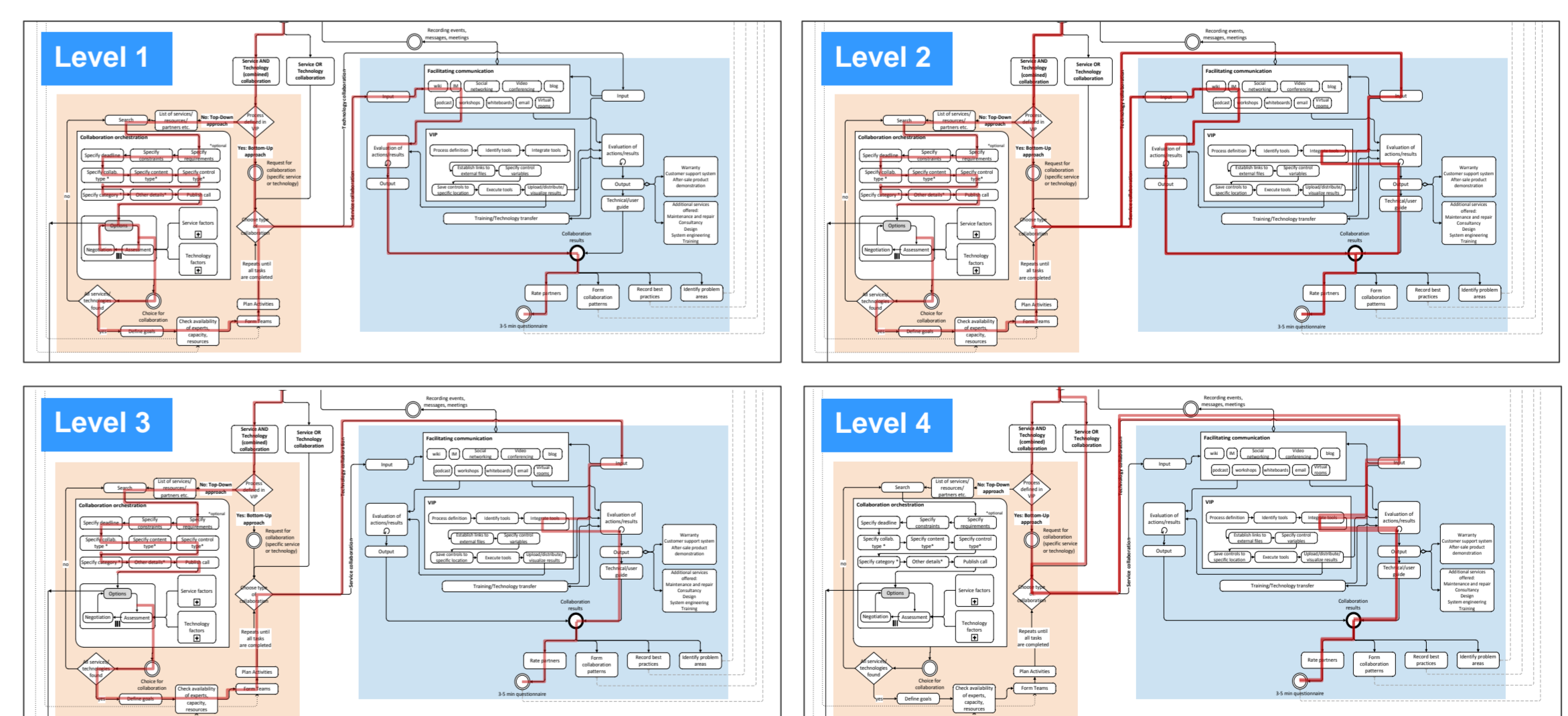
TCP interface and multi-disciplinary optimisation example



Collaboration benefits

Six case studies are underway, designed to demonstrate all four levels of collaboration envisaged. We expect them to show:

- Decrease in time necessary for collaboration formation
- Financial savings
- Improved and easier technology transfer
- Increased levels of collaboration in the sector
- Increase reach and overcome location limitations for companies involved
- Dissemination of innovative practices



Schemes of four collaboration levels applied in the case studies

<http://euro-vip.eu>