P3 - Ygg: Capability-driven Cross-Organizational Business Collaboration

# Summary of the innovation

The core functionality of Ygg is to facilitate business to business collaboration. The main way Ygg supports this is via business processes. Characteristic of these business processes is that they exceed the boundaries of one business. All Ygg core components are involved in supporting those business processes.

Some examples:

* A farmer would like to get advice from an external adviser about the most efficient times to spray his crop for protection. The business process of a farmer getting his advice involves two separate business premises which interact with each other to get what they need in order to provide the service. The farmer asks for the advice and exposes some information about his field and crop so the adviser can retrieve them to give a proper advice to the farmer
* An assembly factory orders some rough materials from another factory and asks a logistics provider to facilitate the transport. Placing the order, providing the logistics provider with the proper information all exceeds the boundaries of one business.

A business process in Ygg is implicit. This means you don't have to define or describe one explicitly. Using the examples, the adviser only has to define in Ygg that he is capable of providing an advice. The farmer can then in it's turn use this capability. This introduces the concept of capability.

For the farmer it would be very helpful if all capabilities providing similar services would look the same. That way the farmer would be able to switch from one adviser to the other without making a lot of adjustments in his software. For this reason Ygg contains a registry with defined capability types.

# Key features / capabilities

* Connecting service endpoints (capabilities)
* Scalable microservice architecture connecting multiple service clouds

# Maturity level (TRL - Technology Readiness Level)

* TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)

# Availability

* Online documentation: <https://bitbucket.org/limetri/ygg/wiki/CapabilityModel>
* Source code available <https://bitbucket.org/limetri/ygg>
* public instance running as part of Fispace SDI (EE)

# Licensing

* GPL V3.0

# FIspace partner(s) that own innovation & contact points

* LimeTri (info@limetri.eu)