

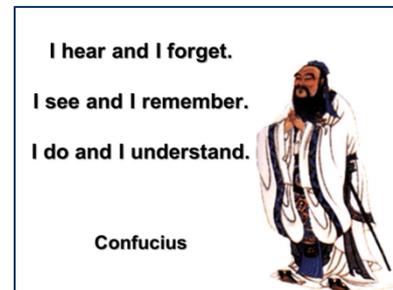
Hybrid communication

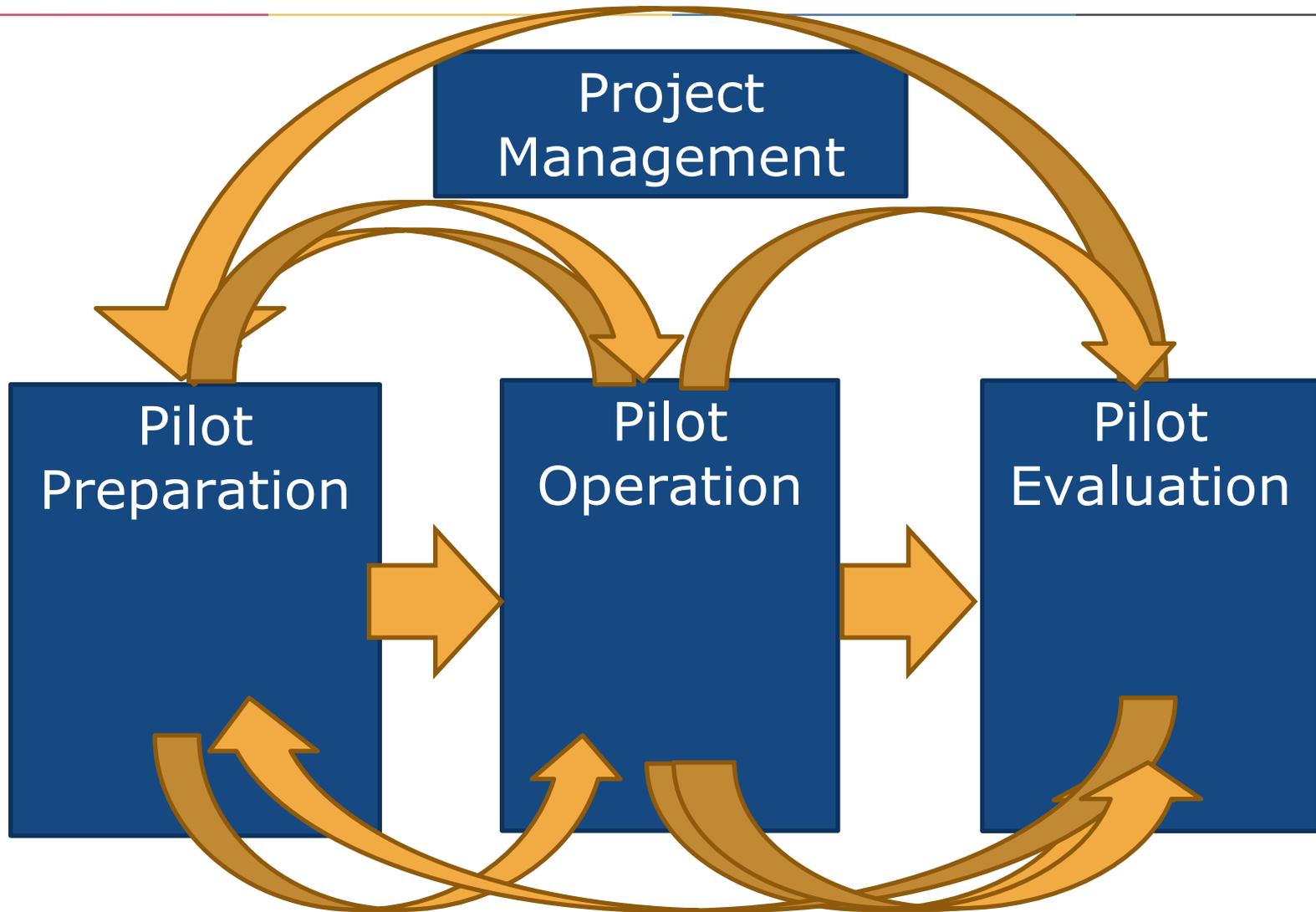
Igor Passchier



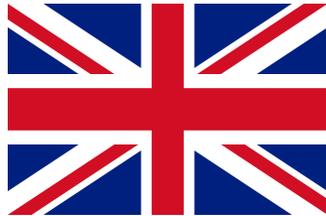
InferCor Key Elements

- Harmonizing for interoperability
 - sustainable set of specifications
 - TESTFESTs
- Making a step from theory to practice
 - pilots based on interoperable specifications
- Learning by doing
 - learning from the pilots
 - evaluating pilots
 - adapting specs based on lessons learnt





•Countries



•Services

- In vehicle signage
- Probe data
- Road works warning
- GLOSA

- Multimodal cargo transport optimization
- Truck Parking
- Tunnel logistics

intermezzo

- NOT ON WIKIPEDIA!!!!
....so modeled on *hybrid algorithm*
- hybrid communication combines **two or more communication solutions** that support the same services, either choosing one (depending on the data), switching between them over the course of the interaction, **or using them concurrently** .
- This is generally done to **combine desired features of each**, so that the **overall** communication solution is **better** than the individual ones.



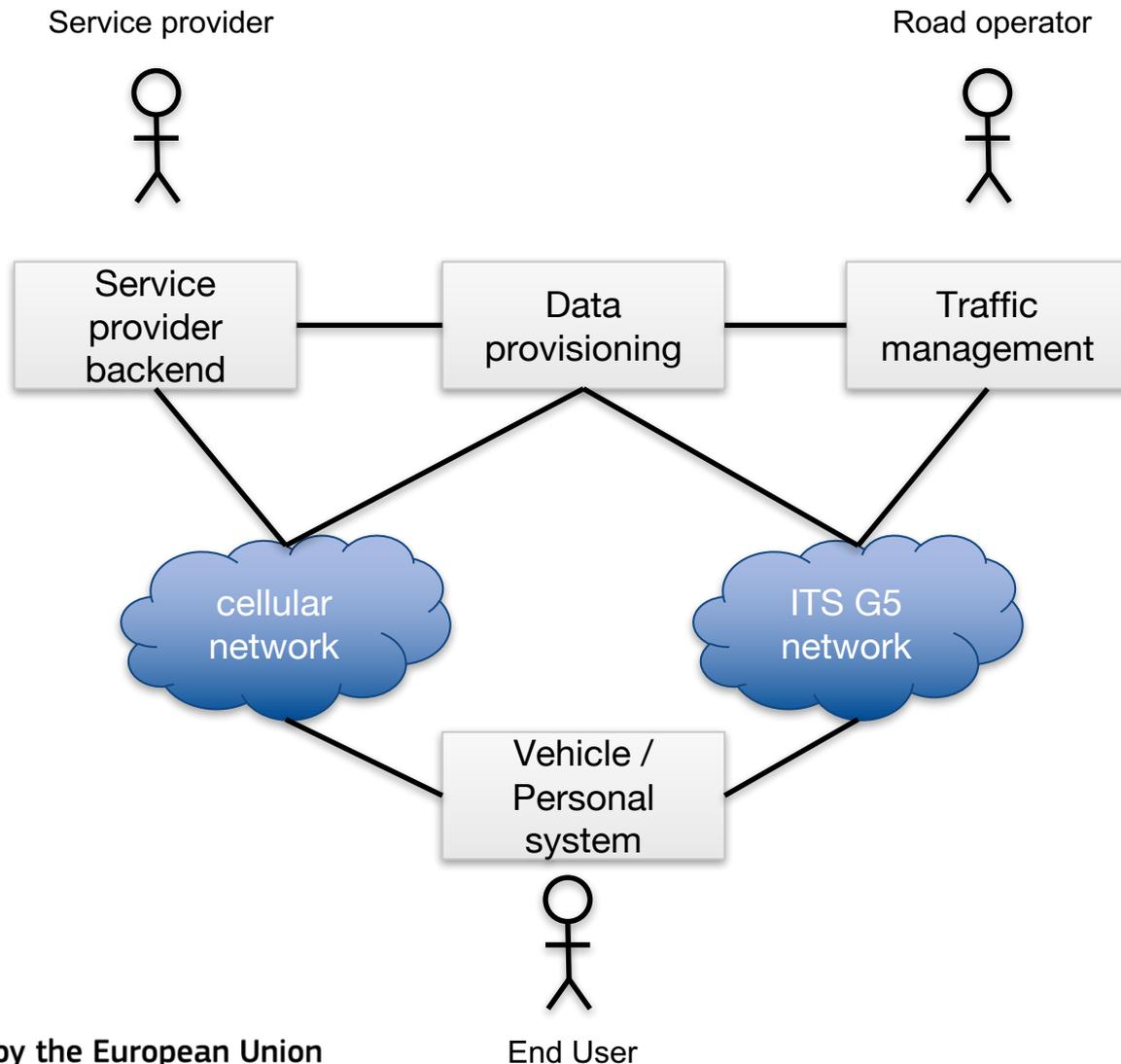
InferCor Hybrid communication Scope

- Set of **specifications of hybrid communications** for all the four countries
- Consensus on **target architecture, roadmap** and the identification and **resolution of key issues** to achieve **cross border operability** resulting in recommended adjustments, additional features and associated test specifications.

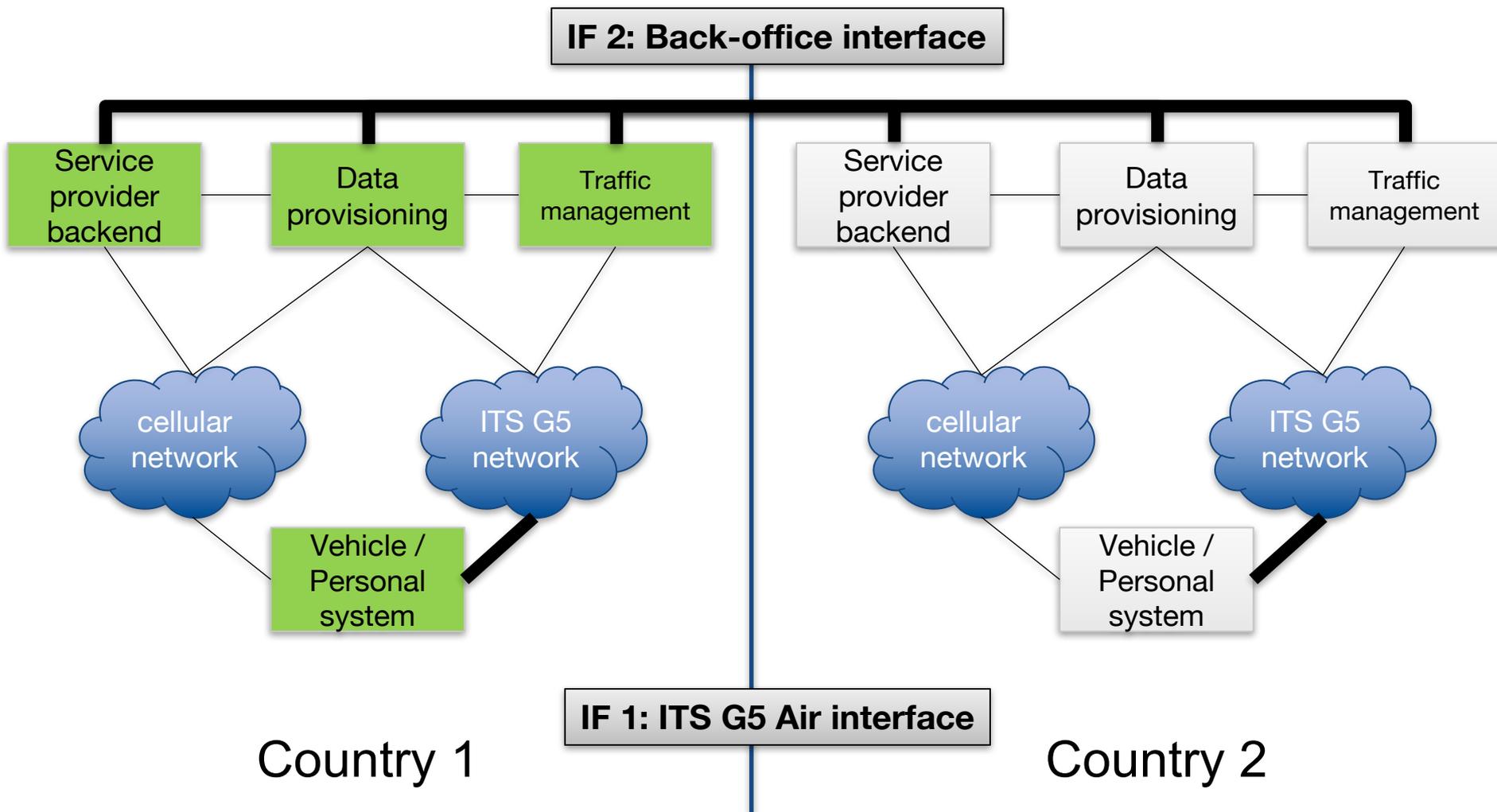


- Minimize the impact on the implementations and plans in the participating countries
 - Don't harmonize the architectures in different countries for now
 - In stead, link different architectures at a limited number of specific interfaces
- Maintain support for different service delivery models, especially via cellular

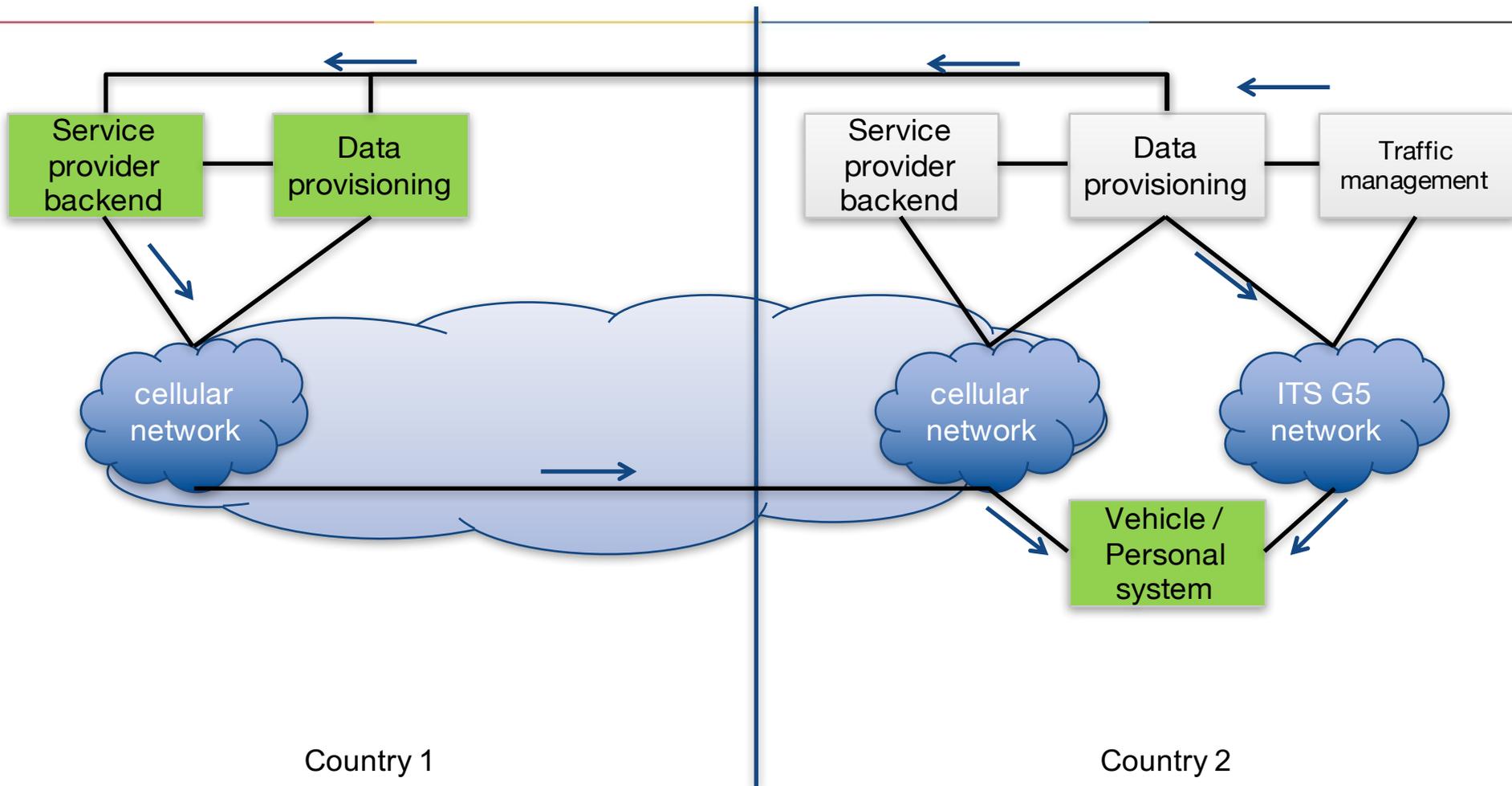
High level generalized data distribution



Pragmatic approach of linking countries



Example dataflow



Issues addressed in Intercor

- Profiling of IF 1 (ITS G5 interface)
- Specifications of IF 2 (backoffice interface to support cellular)
- Interoperability for the PKI for the ITS G5 channel



- Many issues still to address
 - Interactions at the borders
 - Identification of (identical) information via multiple communication channels
 - Authentication via multiple communication channels
 - Optimization of network usage
 - Data formats, data quality, data consistency
 - Timing, validity, updates
 - Network handover, loss of connectivity



Participate!

- testfest ITS G5, 3-6 July, The Netherlands
- testfest hybrid, End 2017/Beginning 2018

Hybrid Interoperability specifications

- Fall 2017

<http://intercor-project.eu/>





Igor Passchier

igor.passchier@tassinternational.com



Co-financed by the European Union
Connecting Europe Facility

info@InterCor-alliance.eu