Interoperability in MDMS

Towards an aggiornamento of European standardisation?

9th Florence Intermodal Forum - Towards EU-wide intermodal ticketing - 2th of May 2022

FABRIQUE
des mobilités
France

Agenda for discussion

1. No pain, no gain

2. Not all stakeholders are happy

3. A review of key success factors for MDMS standards

4. Some (unpopular) proposals for debate

No pain (standards), no gain (interoperability)

- **MDMS services will not reach maturity, profitability and bring massive societal benefits if there is no interoperability**
  - If there is no standard, interoperability could only be partially achieved through aggregation platforms (e.g. taxi/ridehailing with TheGoodSeat, Fluctuo, Karhoo)
  - Need for standards around Data, API/interfaces and business processes at least

- **Key requirements for a standard or norm** [REMINDER]
  - Consensus and recognition among stakeholders
  - State of the art solution to solve practical (cooperation) issues in a given context
  - Contrapositive: if it does not reach consensus among key stakeholders and/or it does not provide efficient methods/tools to build MDMS ecosystems, it is NOT a (good) standard or norm for MDMS, even if published by an official Committee for Standardization

- **Do we have EU standards**, as per ISO definition (see above), even for passenger information? That's controversial among stakeholders...

Not all stakeholders are happy with the EU standardisation process and governance

Public Transport Authorities (PTA) and PT ecosystem

- Fairly happy with current standards
- Well represented in CEN standard development process
- Larger PTA will design their own solutions as needed
- Eg. Ile de France Mobilités supports natively Netex BUT publishes GTFS for its reusers (ecosystem expectation)

MaaS service providers / apps (MDMS)

- Under-represented (outside of PT operators) in current standard development process
- Deal with complexity
- Complexity has a cost: money, longer projects, fewer opportunities
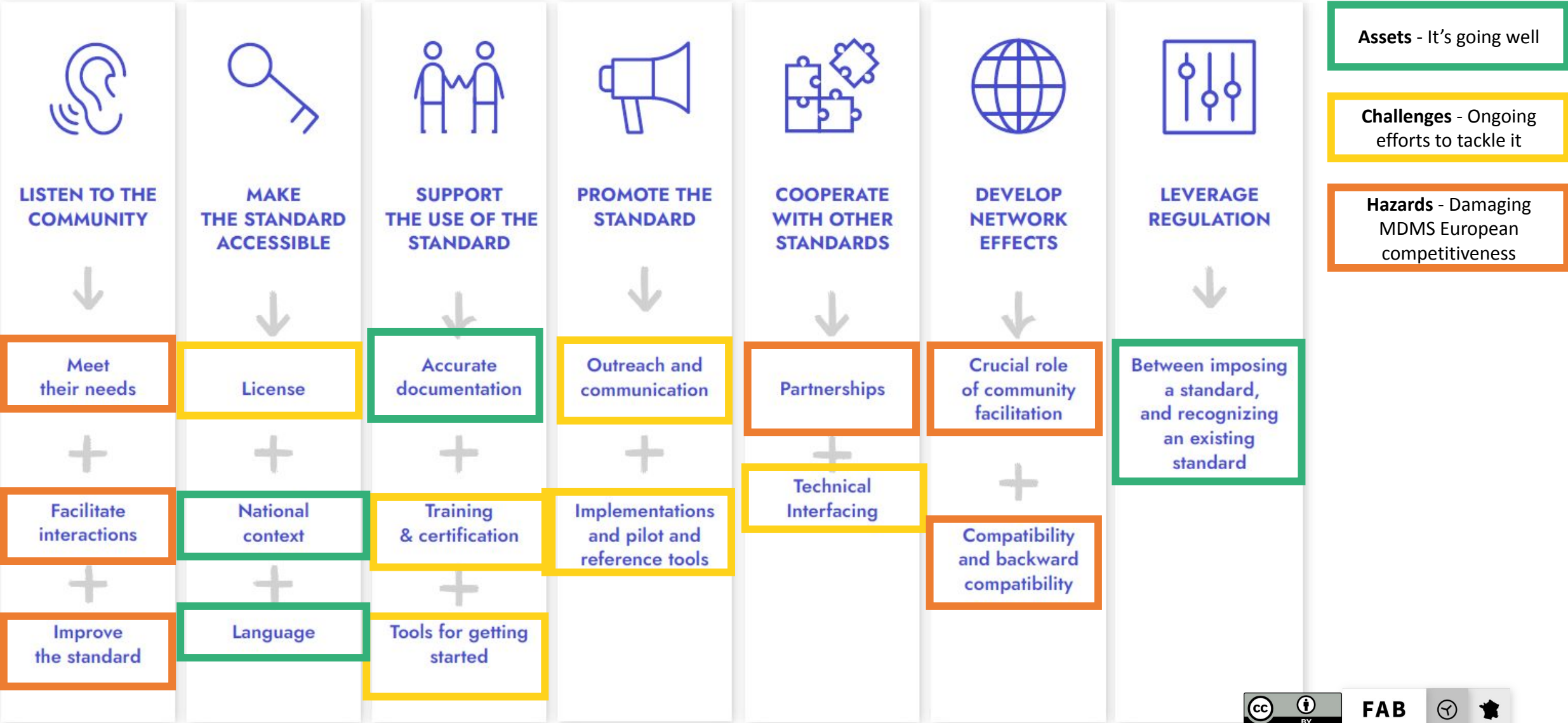
Mobility Service Providers (MSP)

- No say in current sdtandard development process
- Will not consider EU standards in their systems if not mandatory (will use compliance tools in that case)
- Work on MDMS standards on the assumption it is not based on current EU standards
- Besides not all MSPs are interested in public MaaS integrations => attractivity issue

Two industries, with **two distinct cultures and technological paradigms** meet in MDMS: transport and digital

Both are vital for **European economic competitiveness and Green Deal ambitions** => we must improve the way we work on interoperability and standards for MDMS

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How current European MDMS standardisation efforts meet key success factors for standards

Assets - It's going well

Challenges - Ongoing efforts to tackle it

Hazards - Damaging MDMS European competitiveness

LISTEN TO THE COMMUNITY	MAKE THE STANDARD ACCESSIBLE	SUPPORT THE USE OF THE STANDARD	PROMOTE THE STANDARD	COOPERATE WITH OTHER STANDARDS	DEVELOP NETWORK EFFECTS	LEVERAGE REGULATION
Meet their needs	License	Accurate documentation	Outreach and communication	Partnerships	Crucial role of community facilitation	Between imposing a standard, and recognizing an existing standard
Facilitate interactions	National context	Training & certification	Implementations and pilot and reference tools	Technical Interfacing	Compatibility and backward compatibility	
Improve the standard	Language	Tools for getting started				

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Some (unpopular) proposals for debate

1/ An experimental normative process for EU MDMS standards
- There is no such thing as an EU digital standards organisation: let's test something with MDMS
- OSDM is an interesting experiment

- It could be done with support of CEN, based on Open Standards governance principles ([EU definition](#), [UK definition](#), [more](#))

2/ Key primary stakeholders should have a veto right on standards for MDMS (PTA, MSP, MSDM operators)

3/ Prioritise standardising fundamental interoperability principles for MDMS APIs
- Semantics: fundamental business processes in MSDM and their definition

· Data models

· Syntax (eg. OSDM and TOMP-API could provide useful common grounds)

4/ Develop Transmodel standards/extensions that suit MDMS API needs
· If Transmodel must be the European standard framework, we must avoid at all costs that it becomes a burden for digital stakeholders

· This should be done collaboratively by all involved stakeholders with an open governance

· This could involve "simplified profiles" for very specific needs / contexts

Merci - Thanks

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Our report on MSDM standards & governance