

Open standards and interoperability, the key to sustainable mobility

Francis Sykes— 28th of January 2020



Agenda

1. RATP Smart Systems in a nutshell

2. Need for and ways to sustainable transport

3. Standards as enablers

4. Overcoming the challenges of standards

RATP Smart Systems in a nutshell



- We design, build, integrate maintain and operate ticketing, RTPI and Fleet management systems
- We manage the RATP ticketing system and part of the RTPI system
- We are independent from equipment suppliers
- We champion the durability of clients' investments
- Our clients: transport authorities and operators

From...



То...



Two approaches to get to sustainable mobility

1. Getting people interested in trying alternative modes



Two approaches towards sustainable mobility

2. Making alternatives to driving compelling (achieve MaaS)

- Wide choice of mobility modes
- Seamlessly interconnected
- Unified interface
- Support during journey



▶..

You have heard this tune before...



Definitely a multiplayer ecosystem ... Openness is a requisite Standards are key enablers



The value is in the scope of the network



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Scope: businesses within a country (or group of countries) Monopoly

Credit-debit cards

Cash



Scope: scheme (Visa, Mastercard etc.). Triopoly Technical interoperability between many schemes (EMVCo)

The goal is to get customers not to think about feasibility: just do it!

For public transport the value is about the range and wealth of connected modes and services (MaaS)

Combining sub-optimal services can give rise to a compelling combined service



Combining mass transit and last mile services



The value is in

Combining AssociatingPartnering CoopetitionConnecting Sharing Linking

Yes but how?

Standards ecosystem



The challenges of standards

- Time to develop a standard
- Working with competitors
- Intellectual property
- Options-profiles
- Testing and interoperability
- A level-playing field



Approaches to MaaS

Liberal

Total openness Market-forces-driven Competition encouraged

Regulated

Legislation to guaranty fairness Balance Competition encouraged

Loi Orientation des mobilités (LOM)

All PTOs must be included on whole network For a given mode, non discrimination between operators Selection criteria of modes must be transparent

ITS directive 2017/1926 (EU)

VS.





Networks Association

Open competition to suppliers without Calypso experience

Capitalise on developments

Why Keyple?

open to new suppliers



Do not reinvent the wheel! Capitalize



Sustainability and upgradability



Relying on a reusable solution

Calypso Networks Association

Eclipse warranty and open source community support

independence







Case study 2: Annemasse

MaaS DNA is in our genes



RATP Smart Systems core skills and technologies

Case study 3 FAIRTIQ

- Best of breed approach
- Speed-up time to market
- SDK-based
- Swipe-in swipe out
- Beeline/distance-based pricing
- in a multimodal environment





Allowing 3rd party app providers to use FAIRTIQ technology

in their own app, with their own UX.

FAIRTIQ

SDK

Coopetition



Come and meet us on booth A4, you won't be disappointed !