

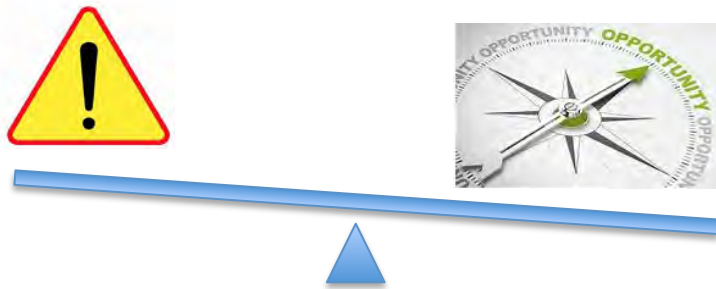
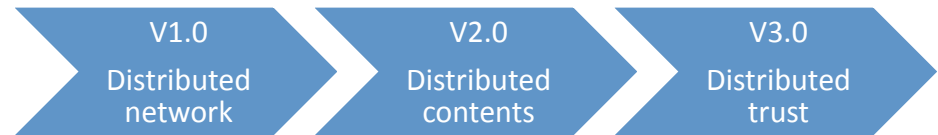
The frequency management Blockchain project

Fondazione Ugo BORDONI

September, 25th , 2018

The blockchain technology

- The « 3rd Revolution » of the Internet ?



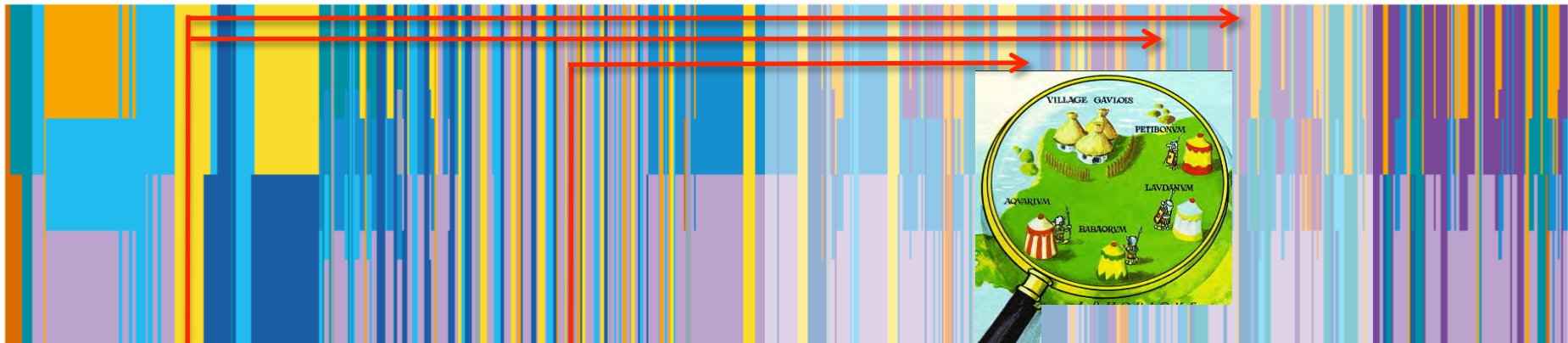
- Thus, a major risk or a tremendous opportunity for the Administration?

- One only option to answer:
diving into the blockchain adventure
and exploring the technology



Spectrum management

■ FIXE	■ MOBILE	■ SCIENTIFIQUE	■ SATELLITE	■ RADIOLOCALISATION
■ MARITIME	■ AERONAUTIQUE	■ RADIOAMATEUR	■ METEOROLOGIE	■ RADIODIFFUSION



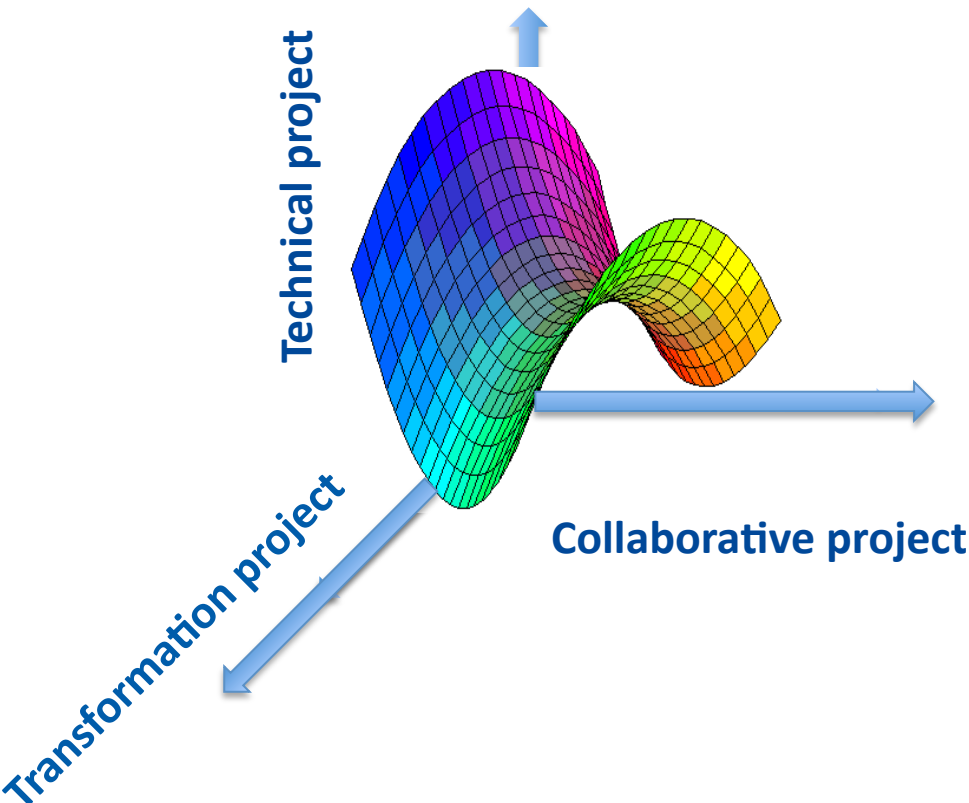
... General Authorization
Frequency Bands



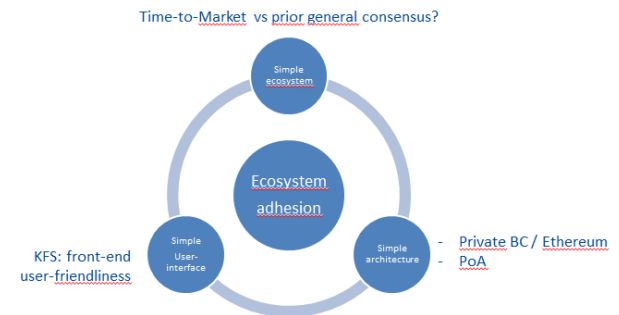
Tragedy of commons

A Blockchain project in the administration

$$f(x+y+z)=0$$



1- Adhesion of the ecosystem / One objective: simplicity



2- Technical requirements / Acculturation of the Adm to Blockchain technology

3- Social impact / One imperative: giving meaning

Status of the MVP and next milestones

- **01/2018: Public Market**
- **03/2018**
Blockchain Partner, partner of the project
Project kick-off
- **04/2018 to 08/2018: agile approach**
(6 runs of development)
- **09/2018: UAT**
- **16/10/2018 : Expected Go-Live**



Next steps?



SHORT TERM

Experimenting
Understanding
Sharing

MVP
General authorization
frequency bands

MIDDLE TERM

Blockchain integration
within general spectrum
Management processes ?

Collective intelligence
Serendipity

LONG TERM

Second market of
frequencies over
blockchain ?

Public blockchain?

Consortium blockchain ?

Private Blockchain

Thank you for your attention

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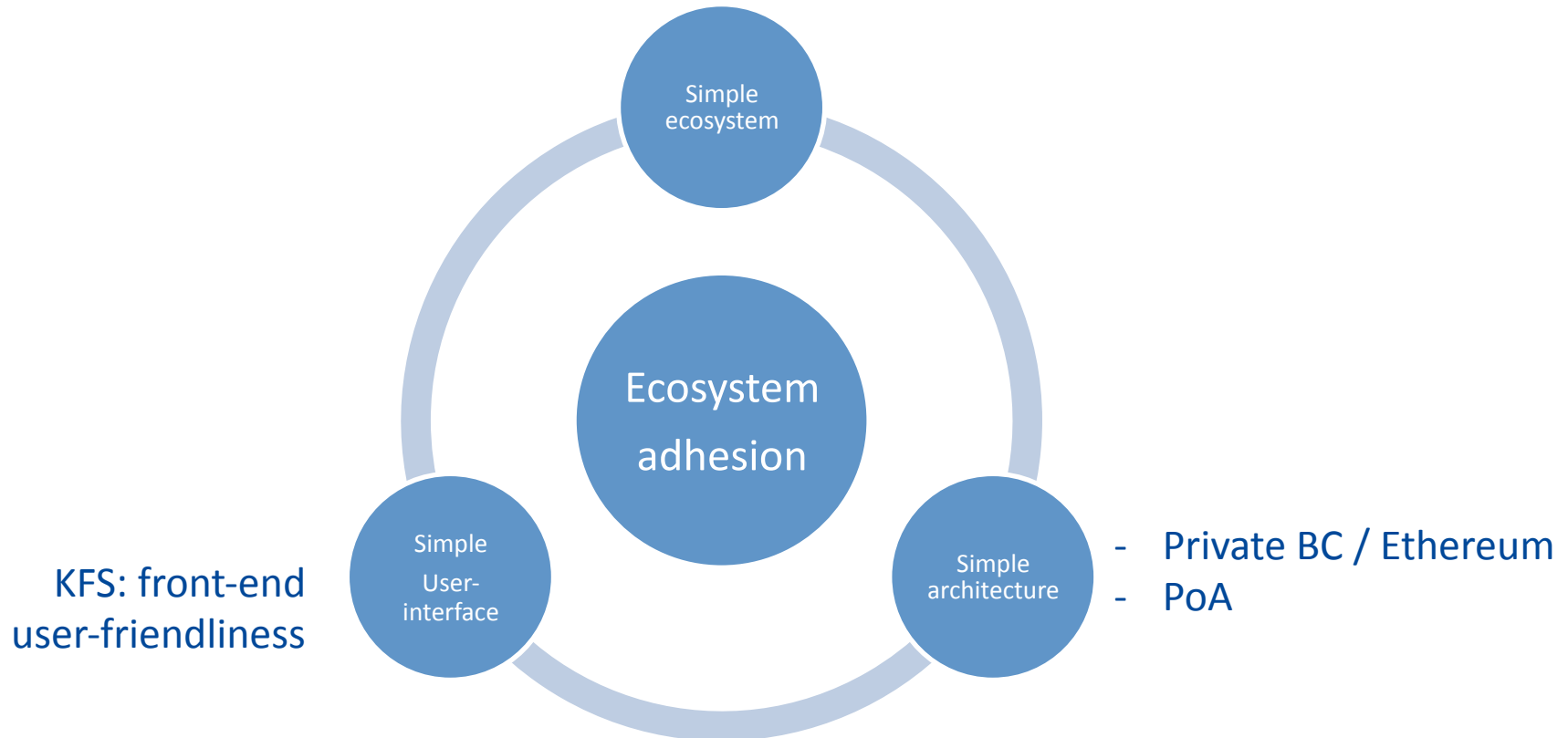
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Ecosystem adhesion / one objective: simplicity

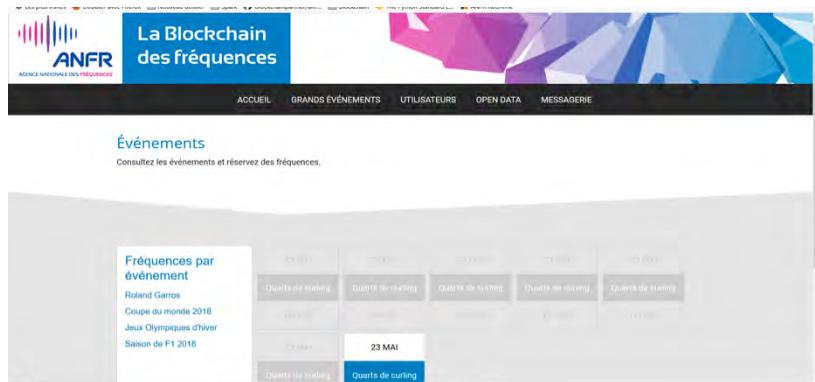
Time-to-Market vs prior general consensus?



The tragedy of commons in general authorization frequency bands



A simple architecture



Events
management

Availability
Management

Accounts
management

Enregistrement des
transactions

