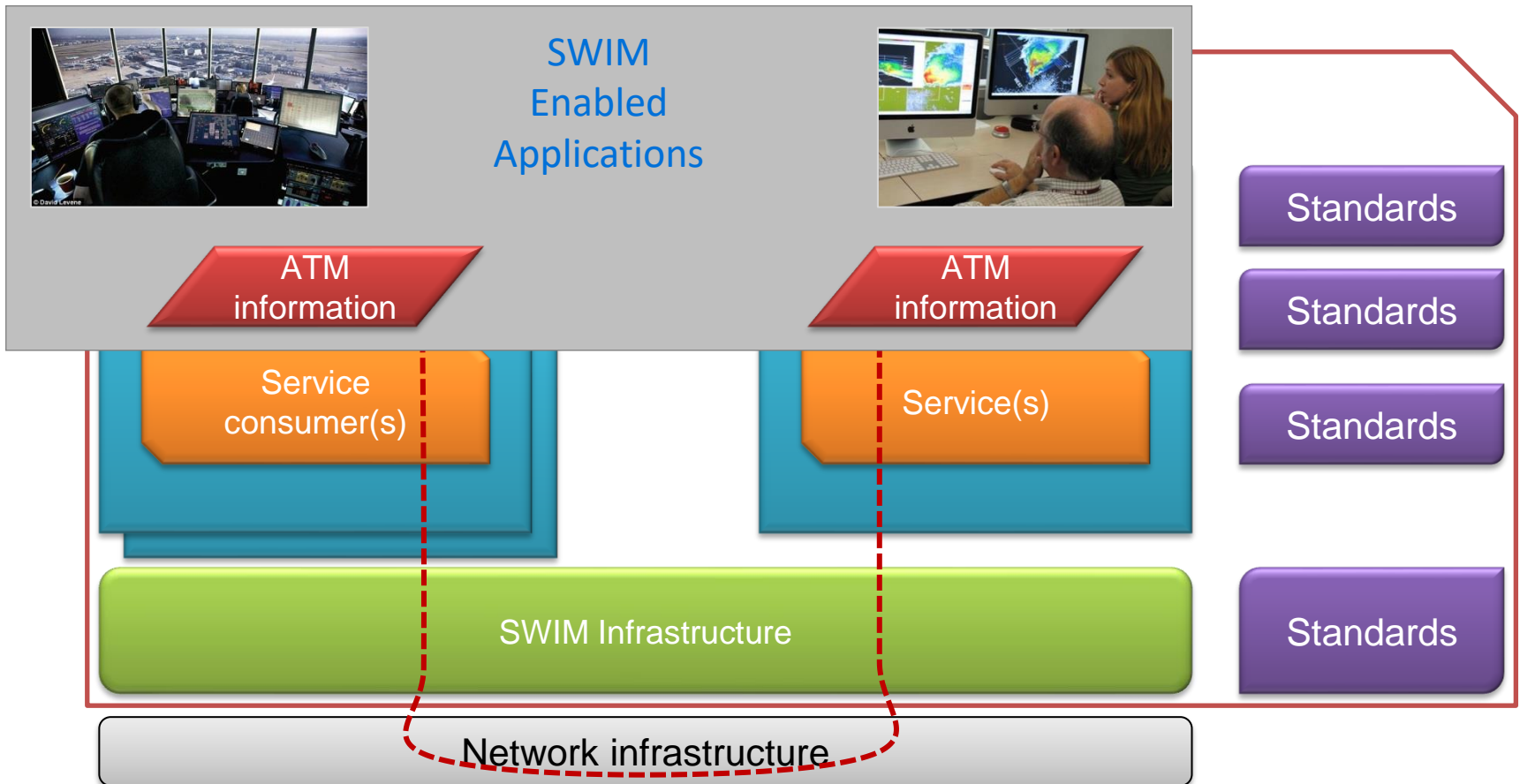
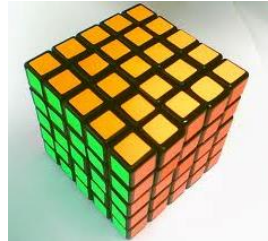


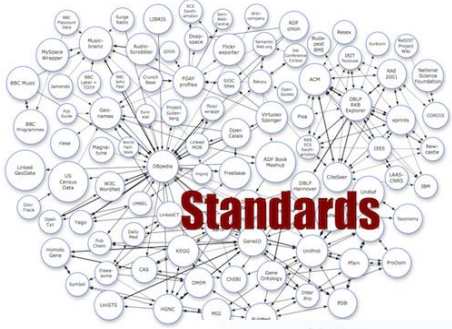
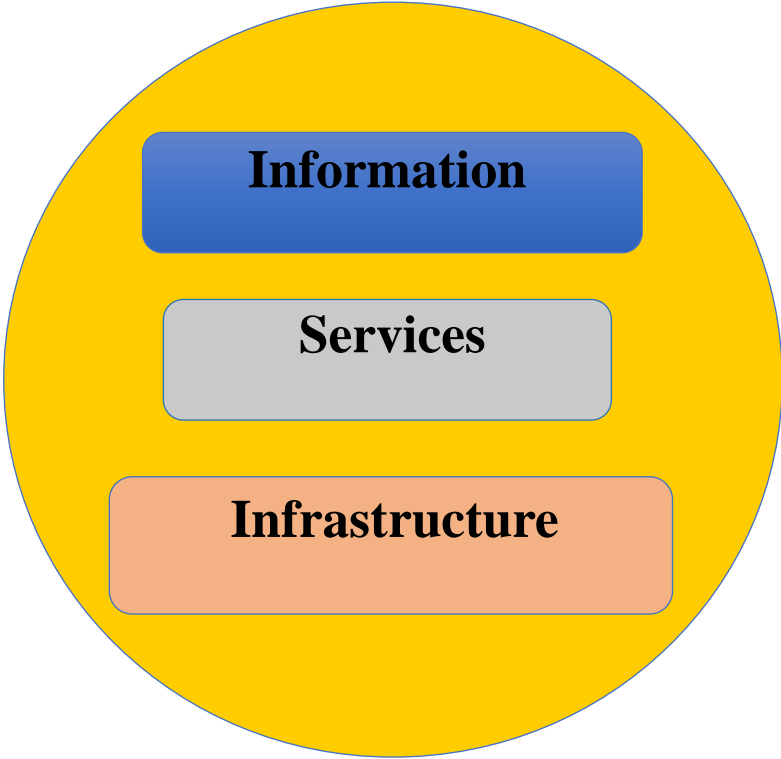
SWIM DEFINITION AND COMPONENTS

SWIM consists of *standards, infrastructure and governance* enabling the management of *ATM information* and its exchange between *qualified parties* via *interoperable information services*.



SWIM in practical terms

AIXM
WXXM
FIXM



SWIM : accessing data

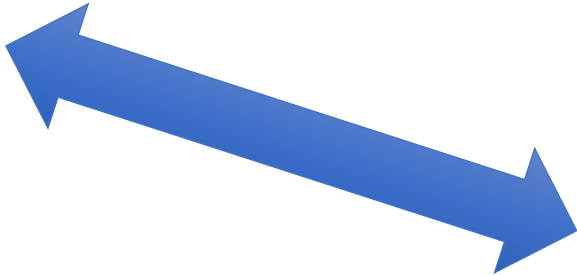


Unlocked data

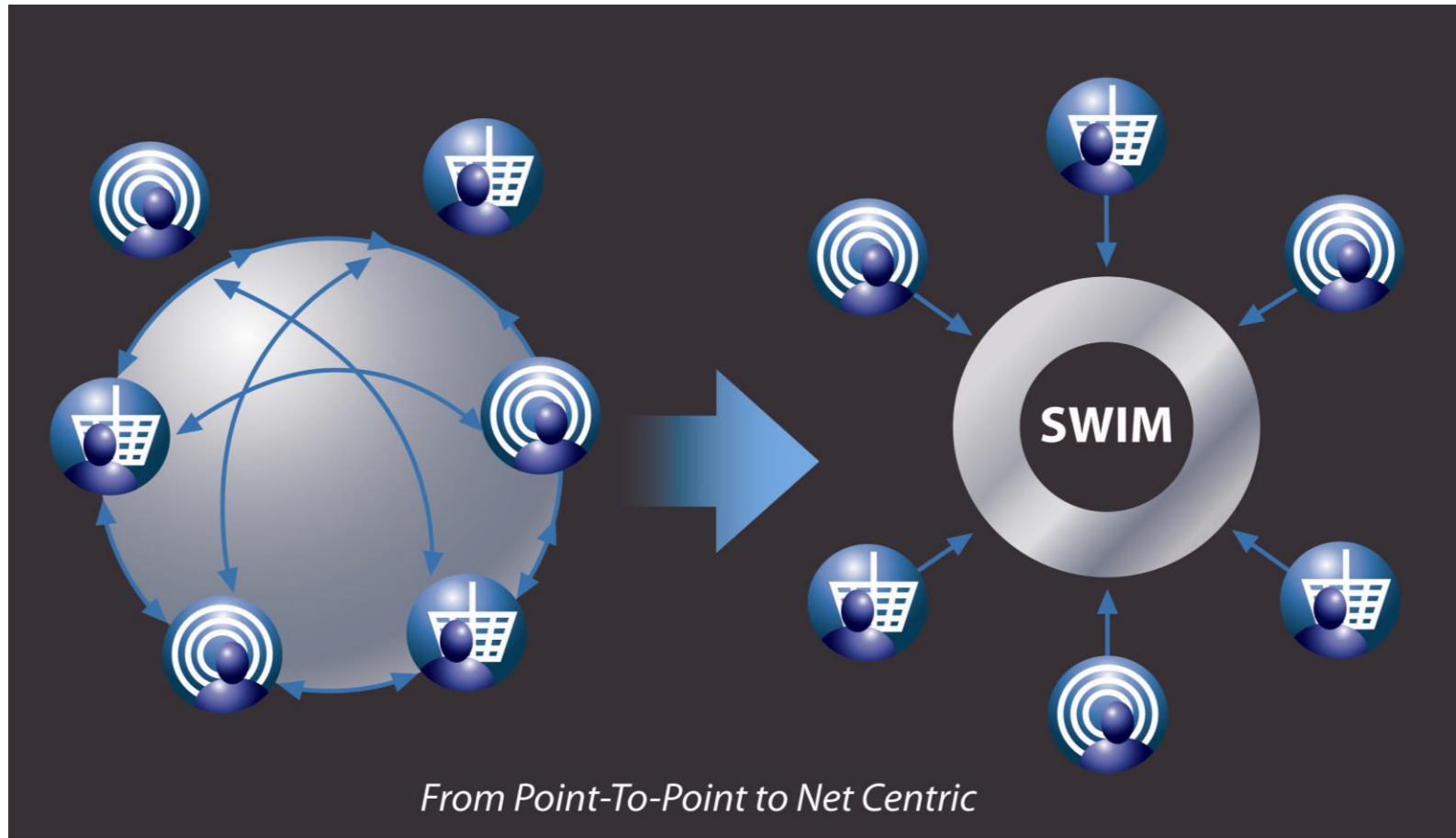


Provider

Consumer



SWIM is net-centric



SWIM is Service Oriented Architecture

Sharing information via Providing / Consuming service(s)

Discover Service

Publish Service

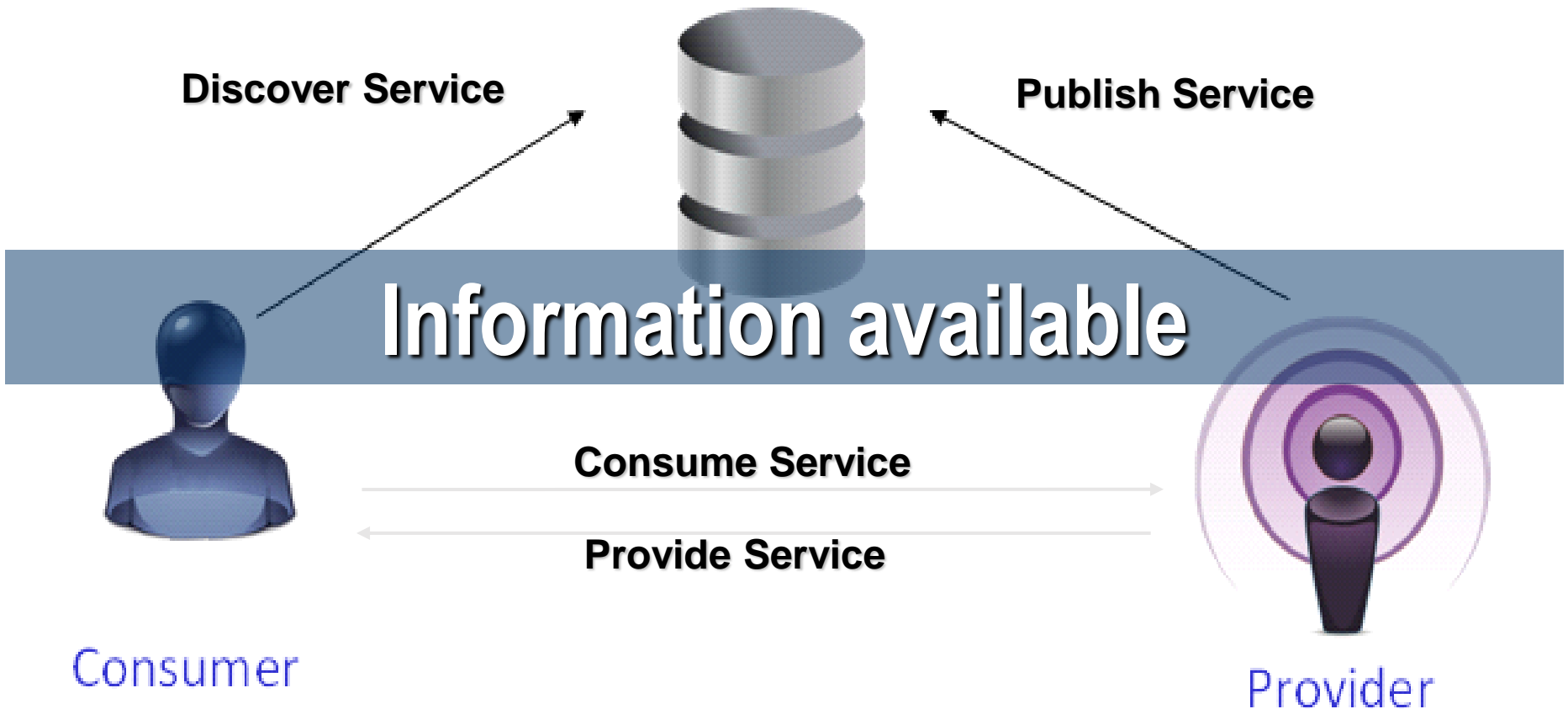
Information available

Consume Service

Provide Service

Consumer

Provider



SOA - Service Oriented Architecture



SOA is a style of software design ... The basic principles are **independent of vendors, products and technologies**

service-orientation promotes **loose coupling**

It is enabled by **technologies and standards** that make it easier for components to communicate and cooperate over a network, **especially an IP network**

help businesses respond **more quickly and more cost-effectively** to changing market conditions

Business value is given more importance than technical strategy

Strategic goals is given more importance than project-specific benefits

Intrinsic inter-operability is given more importance than custom integration

Shared services is given more importance than specific-purpose implementations

Flexibility is given more importance than optimization

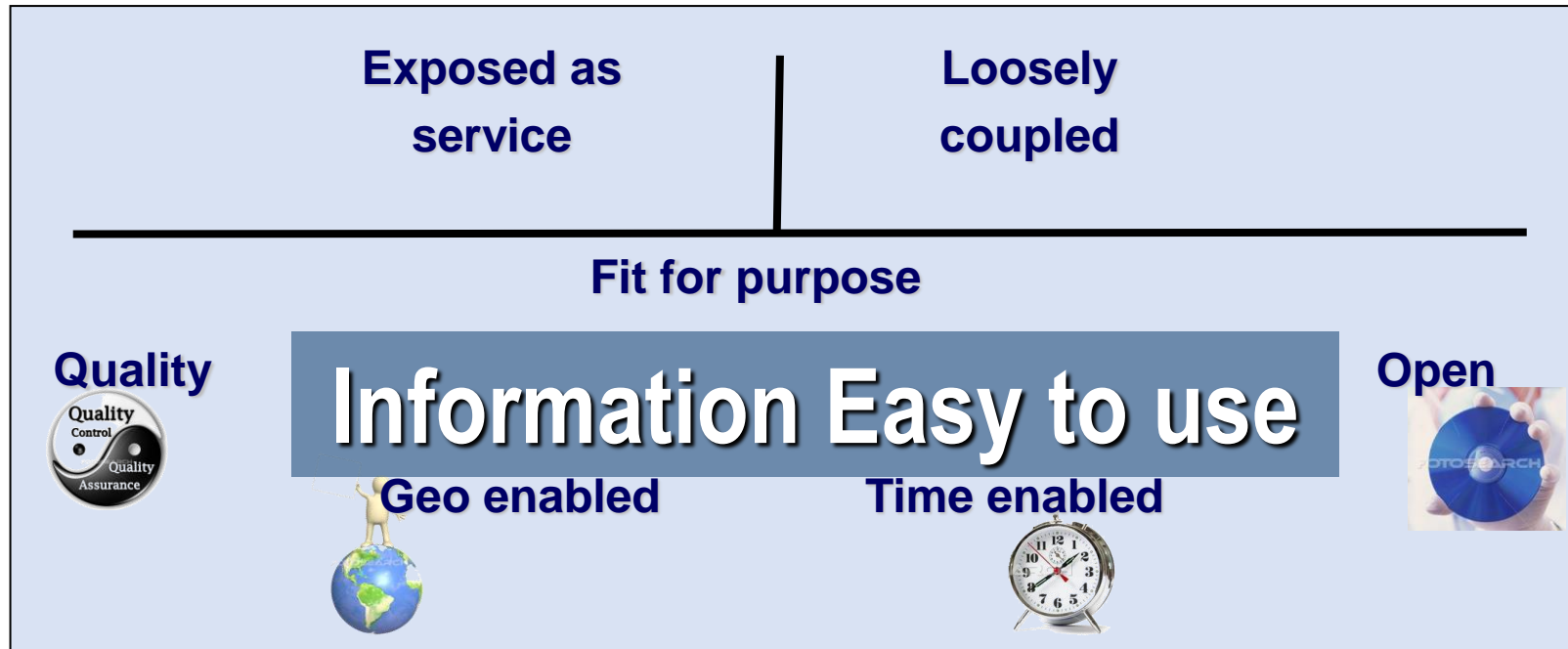
Evolutionary refinement is given more importance than pursuit of initial perfection

SOA in other industries

- Military – Net Centric Warfare (C4I2).
- Banking – Society for Worldwide Interbank Financial (SWIFT).






SWIM is Open Standards



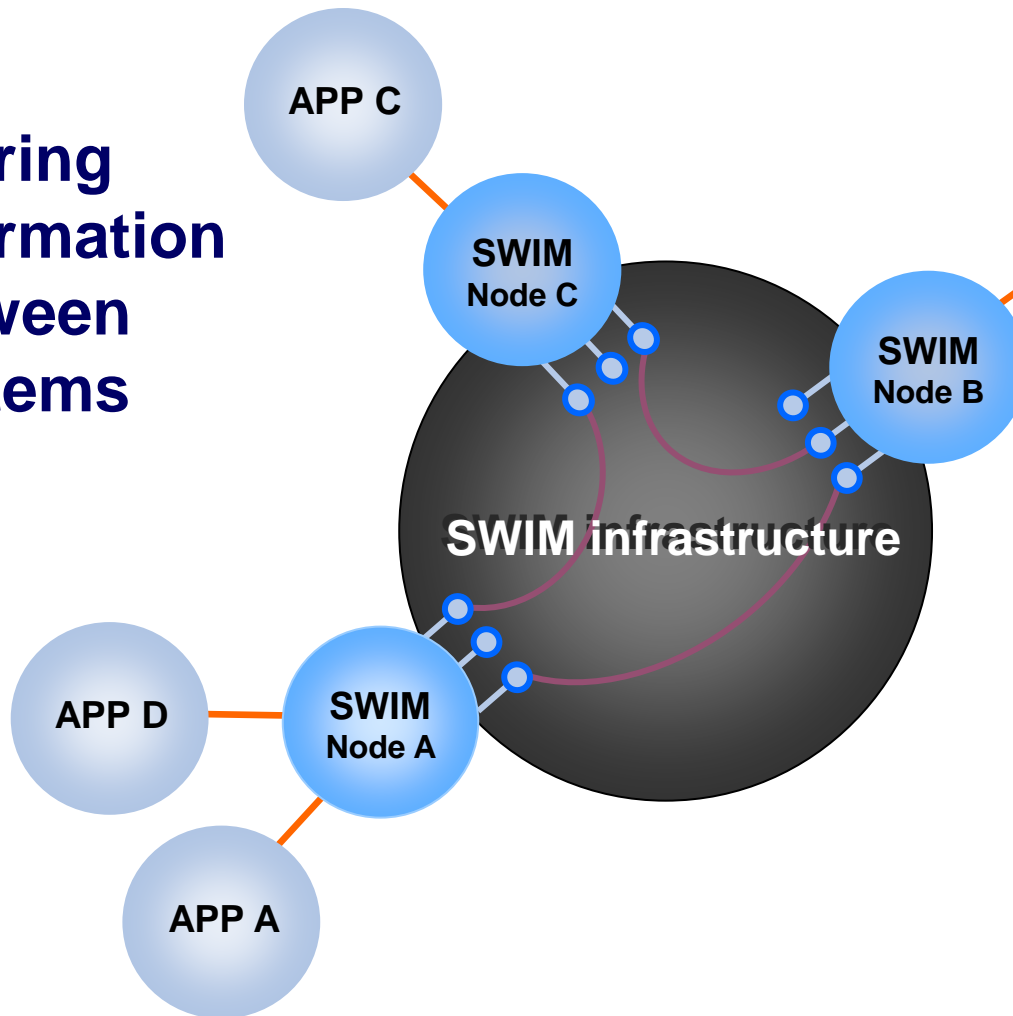
-  **Interoperability**
-  **Secured Seamless access & exchange**
-  **information exchange over open Standards**

SWIM is Information Management

-  **Information Management Functions (Governance)**
General Principles, ATM Information related aspects
 -  **AIRM - ATM Information Reference Model**
Information Modelling Conventions and common meaning
 -  **Information Services Specifications**
-

SWIM is system-to-system

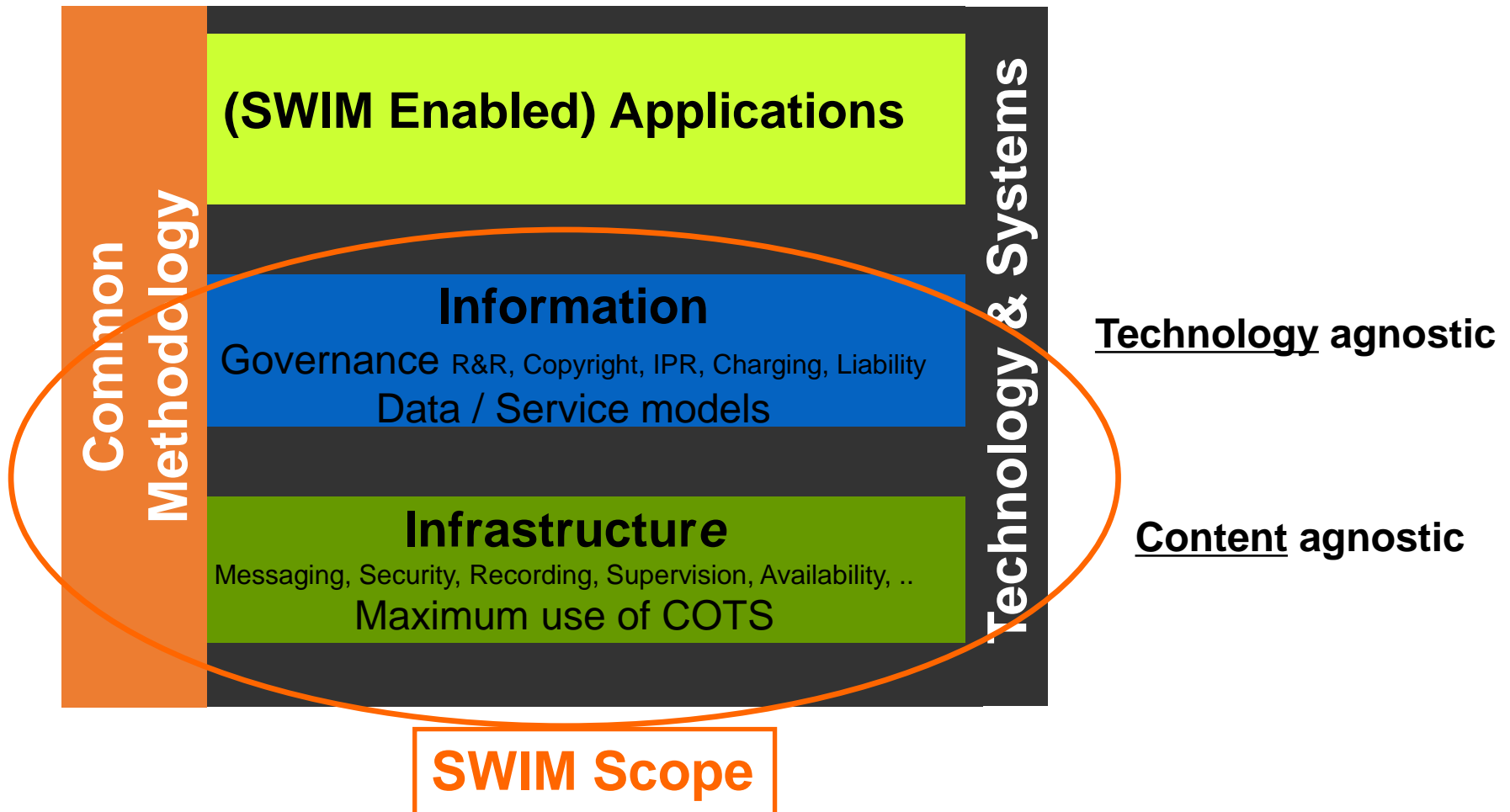
**Sharing
information
between
systems**



- SOA but ...
- Linking existing (legacy) & new systems
- Enabling stepwise Development & Deployment

SWIM vs Technology and Contents

SWIM is net-centric





Key-points

- **Federation** - SWIM will enable the stakeholders in the European ATM community to collaborate in a federated manner, at the pan-European, regional and local levels.
 - **Information sharing** - Information will be available to all parties, except if specific policies restrict access to it.
 - **Service orientation** - SWIM will use services as the mechanism for supporting the ATM stakeholders with a view to the sharing of information.
 - **Open standards** - SWIM services will be based on open and internationally agreed standards when fit for purpose.
 - **Information and service life cycle governance** - SWIM information and services will be governed throughout their life cycle.
- 

SWIM hi-level ConOps

