



3DEXPERIENCE®

Paris 2024 Olympics Games Smart Athlete Transportation System

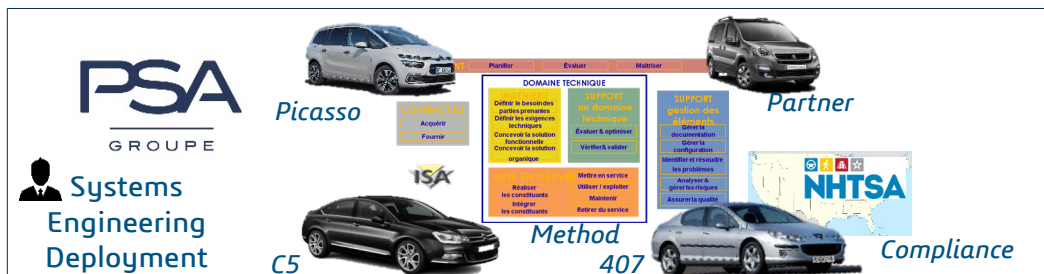
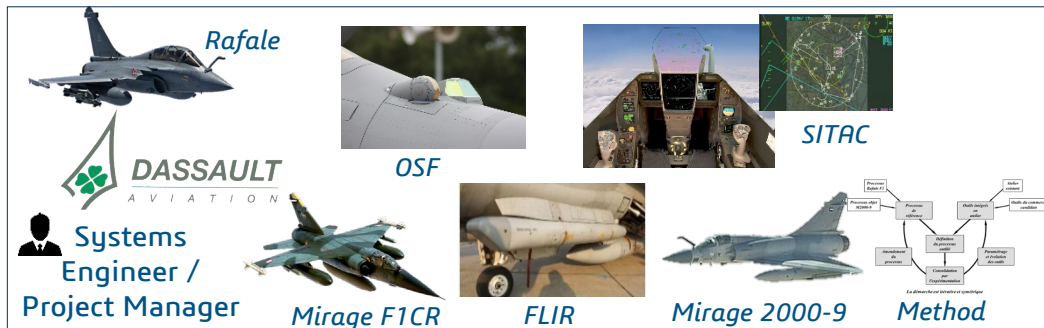


About the presenter



Gauthier Fanmuy

Systems Engineering Portfolio Director



Welcome to Paris Olympic Games 2024



Credit : AP/SIPA

System of Systems

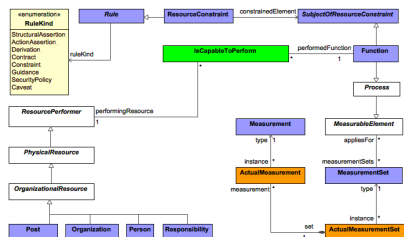
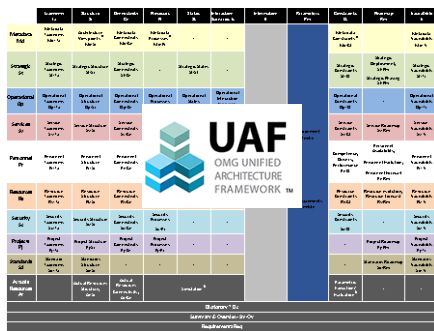
Integration of a finite number of constituent systems which are **independent** and **operatable**, and which are **networked together** for a **period of time** to achieve a certain higher goal.
(Jamshidi 2009)

Mobility Services



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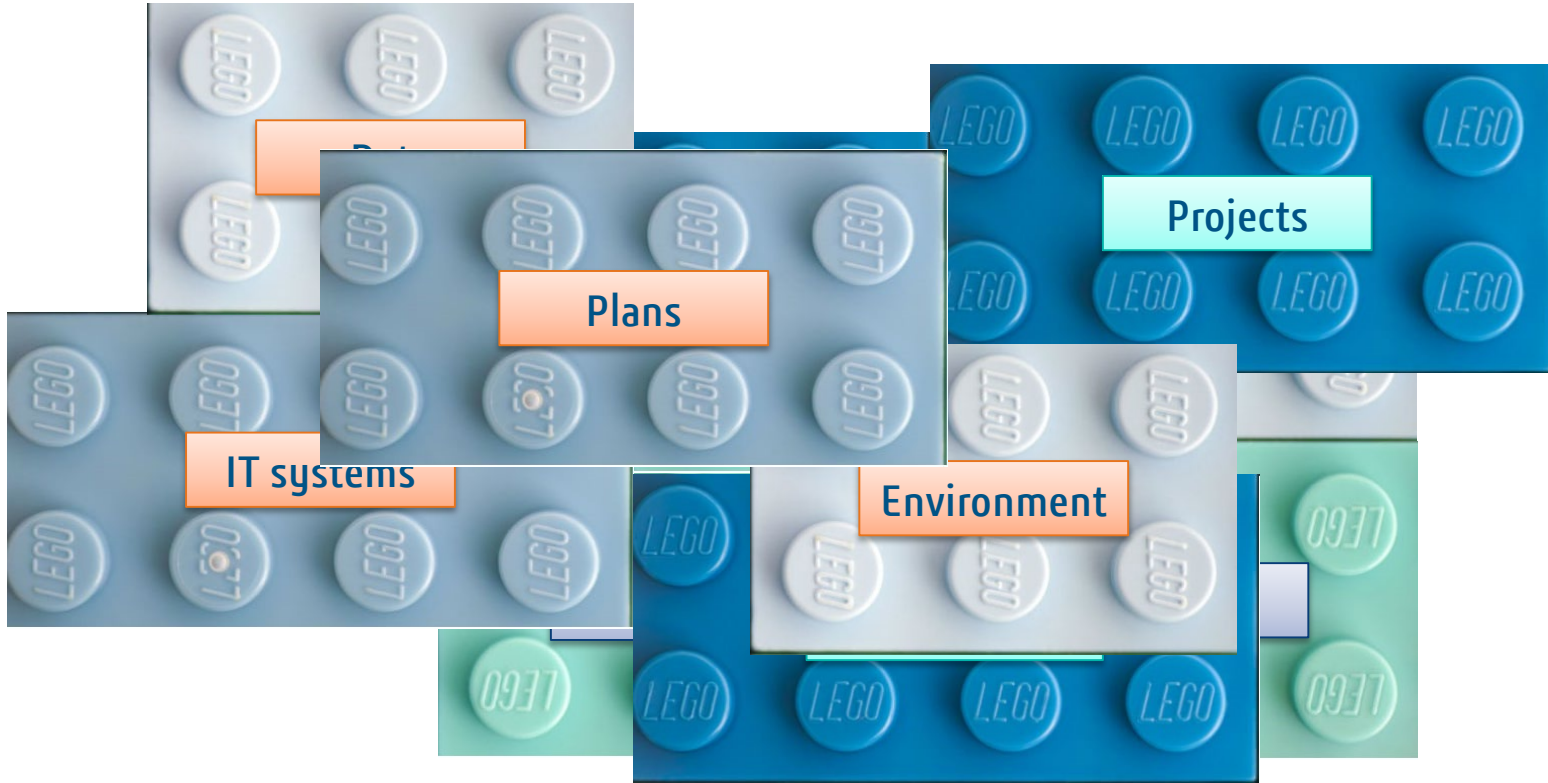
Normative Components

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OBJECT MANAGEMENT GROUP



So we need to capture...



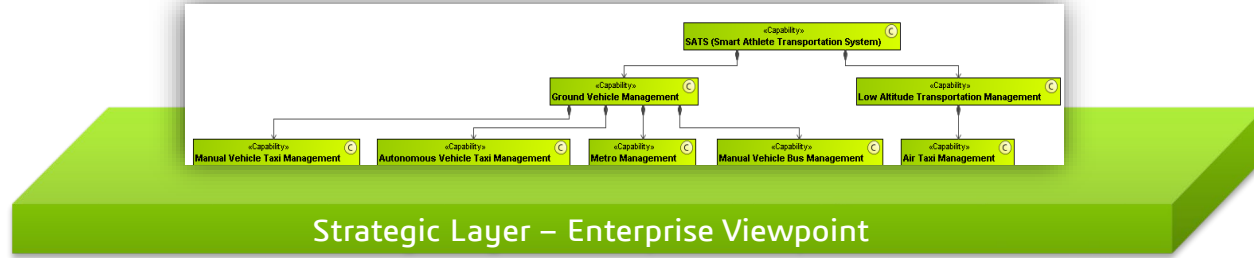
What we need?



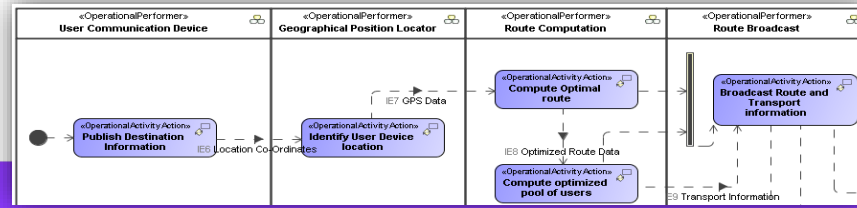


System of Systems Approach

**Problem
domain**

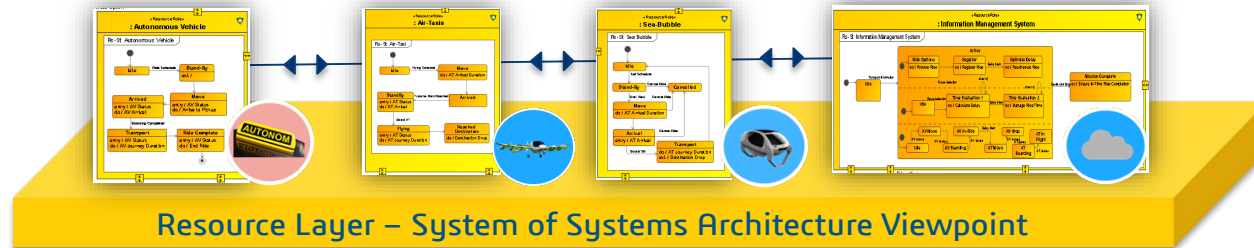


Why



What

**Solution
domain**



How



Value network collaboration

Industry Solution Experiences



Industry Process Experiences



Roles & Apps



Smart, Safe & Connected

Mobility Systems Architecture

Modeling & Simulation

Navigation & Execution



Systems of Systems Architect



Mobility services stakeholders



Demonstration

Olympics Transportation Dashb... x

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3DEXPERIENCE | 3DDashboard Olympics Transportation Dashboard

Search

Himanshu UPADHYAY

Project Systems Engineering Athlete Journey Simulation Smart Traffic Management Autonomous Car System Experience Validation Review

Systems Traceability

Content Diagram Content Diagram Smart Athlete Transportation System

PARIS 2024

PARIS 2024

STRATEGIC

Strategy

Capabilities Taxonomy

Strategic Structure of Enterprise

OPERATIONAL

Smart Athlete Operational Taxonomy

Transportation System Information Exchange

Operational Process Flows

SYSTEM OF SYSTEMS ARCHITECTURE

Resources Taxonomy

Athlete Transportation

SYSTEM ENGINEERING

PROBLEM

SOLUTION

OPERATIONAL CONCEPT DEVELOPMENT

Autonomous Vehicle Life Cycle and Phases

Automobile Context

Operational Use Case Diagram

SYSTEM ARCHITECTURE DEFINITION

Functional Chain Lane Keep Assist

Sub-System Allocation

Sub-System Structure

Sub-System Connectivity

SOLUTION (CROSS-DISCIPLINES) DESIGN DEFINITION

About 3DEXPERIENCE platform

Conclusion: benefits

- ▶ Understand the **operational** landscape
- ▶ **Make decisions on candidate SoS configurations** compliant with the capability requirements
 - ▷ **Automatically** verify capability requirements based on emergent SoS behavior
- ▶ Develop **standard-based** system of systems architecture to simplify source selection all along the **supply chain**
- ▶ Deliver **consistent and complete** architectural specification for Systems acquisition

The future of SoS is immersive mission analysis

