Researching Future Networking

PRP workshop CalIT2 10/16/15
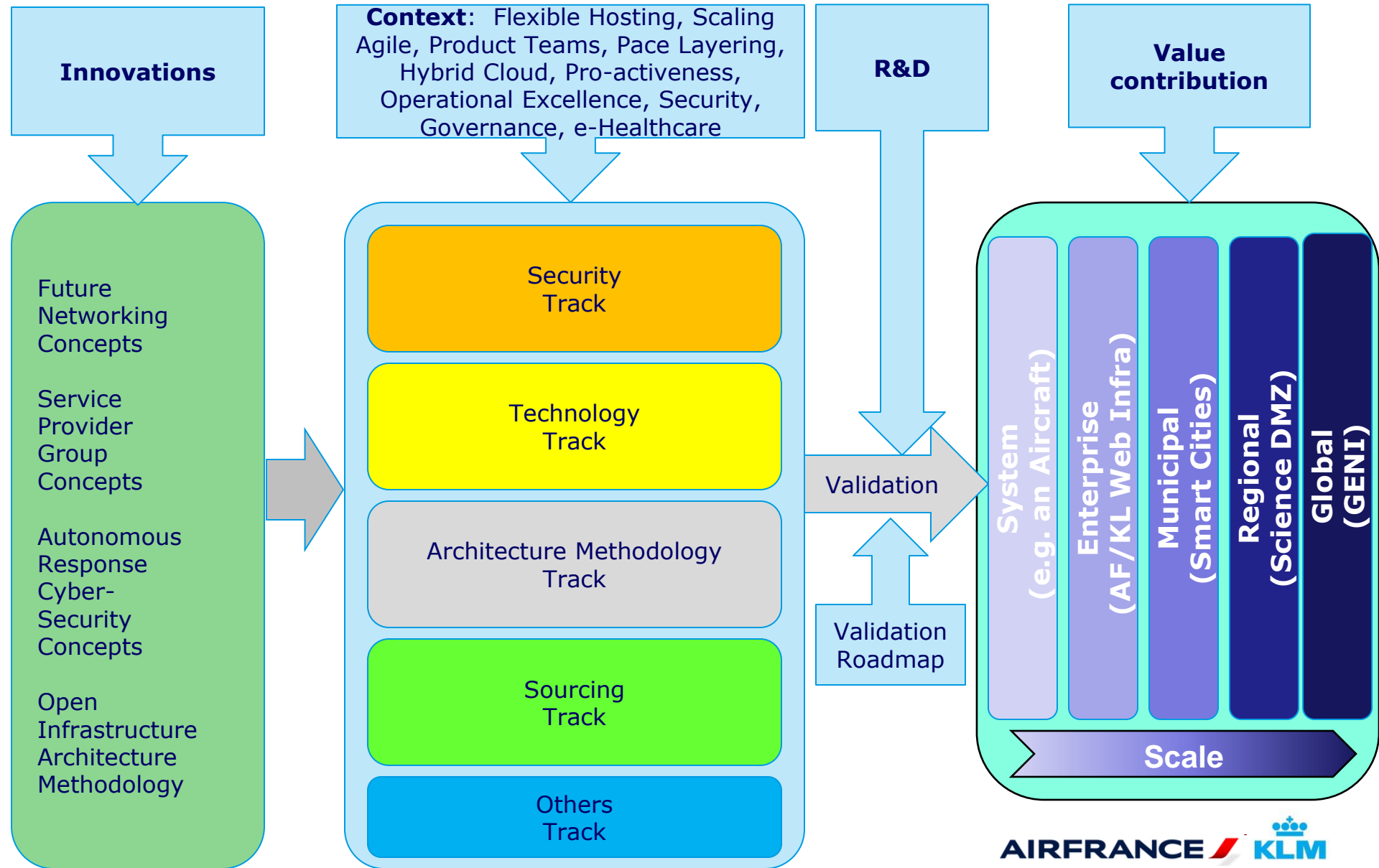
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Air France KLM Information Services

Researching Innovations: Framework

Innovations

Context: Flexible Hosting, Scaling Agile, Product Teams, Pace Layering, Hybrid Cloud, Pro-activeness, Operational Excellence, Security, Governance, e-Healthcare

R&D

Value contribution

Future Networking Concepts

Service Provider Group Concepts

Autonomous Response Cyber-Security Concepts

Open Infrastructure Architecture Methodology

Security Track

Technology Track

Architecture Methodology Track

Sourcing Track

Others Track

Validation

Validation Roadmap

System (e.g. an Aircraft)

Enterprise (AF/KL Web Infra)

Municipal (Smart Cities)

Regional (Science DMZ)

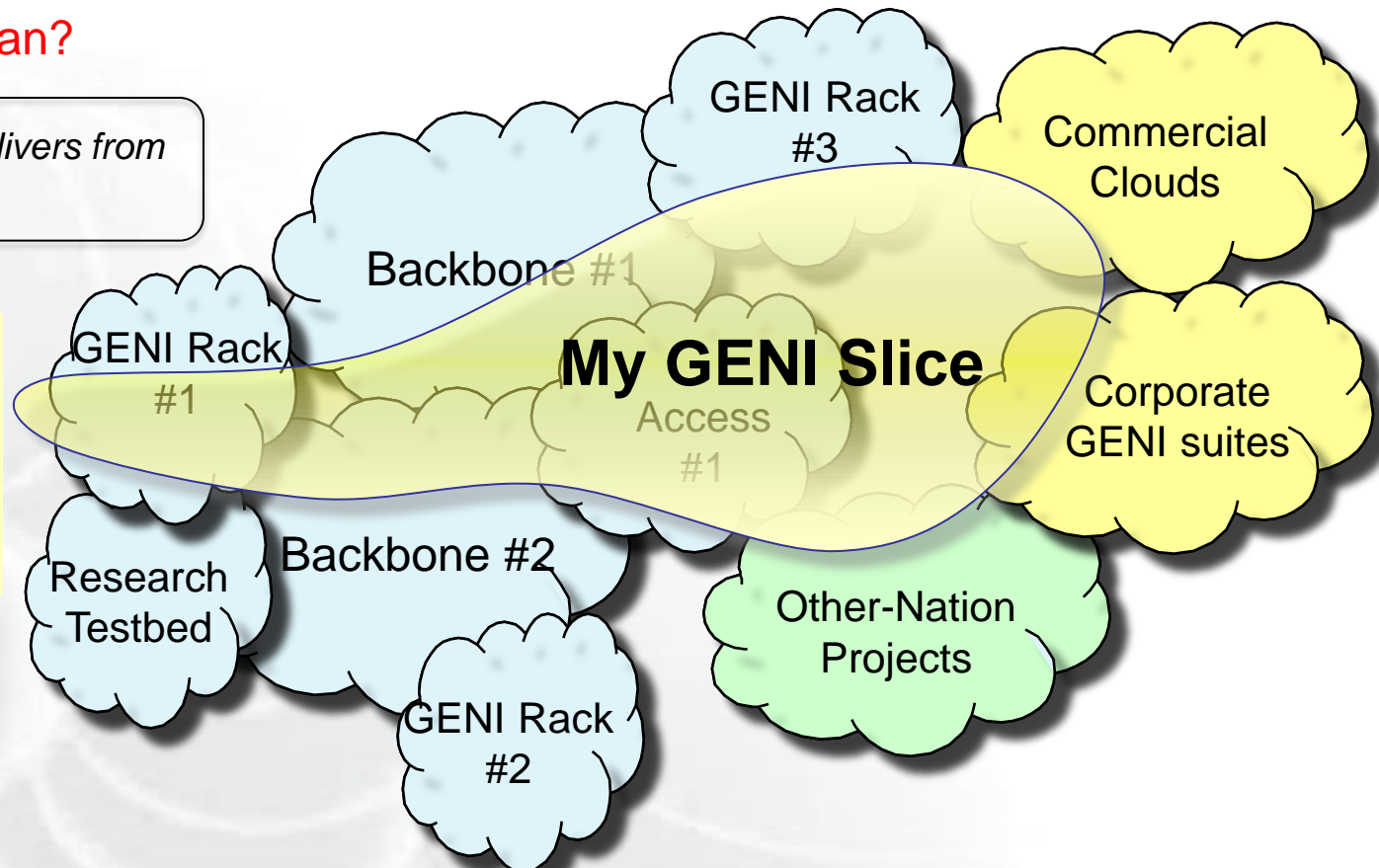Global (GENI)
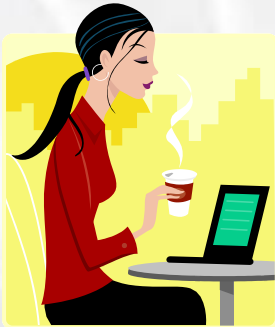
Scale

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- A slice : One or more resources provided by an aggregate
  - E.g. Bare machines, virtual machines, VLANs

What does my mean?

My slice contains slivers from many aggregates.

GENI Rack #3

Commercial Clouds

Backbone #1

GENI Rack #1

My GENI Slice

Access #1

Corporate GENI suites

Research Testbed

Backbone #2

Other-Nation Projects

GENI Rack #2

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OIAm: A functional architecture specification method

	Generic	Specific
Functional Design	OIAM Patterns: OIAr (Community supplied)	SPG Infrastructure Domain Patterns
Technical Design	SPG compliant infrastructure patterns	SPG Solution Design
Realization	SPG Standard Stacks & Components	Running Infrastructure CI's & CMDB

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Envisaged workflow – Automated implementation.