AirCargoBelgium

ACB

Who?

• Umbrella organisation at BRUcargo

• Neutral entity

What do we do?

• Community projects

For who?

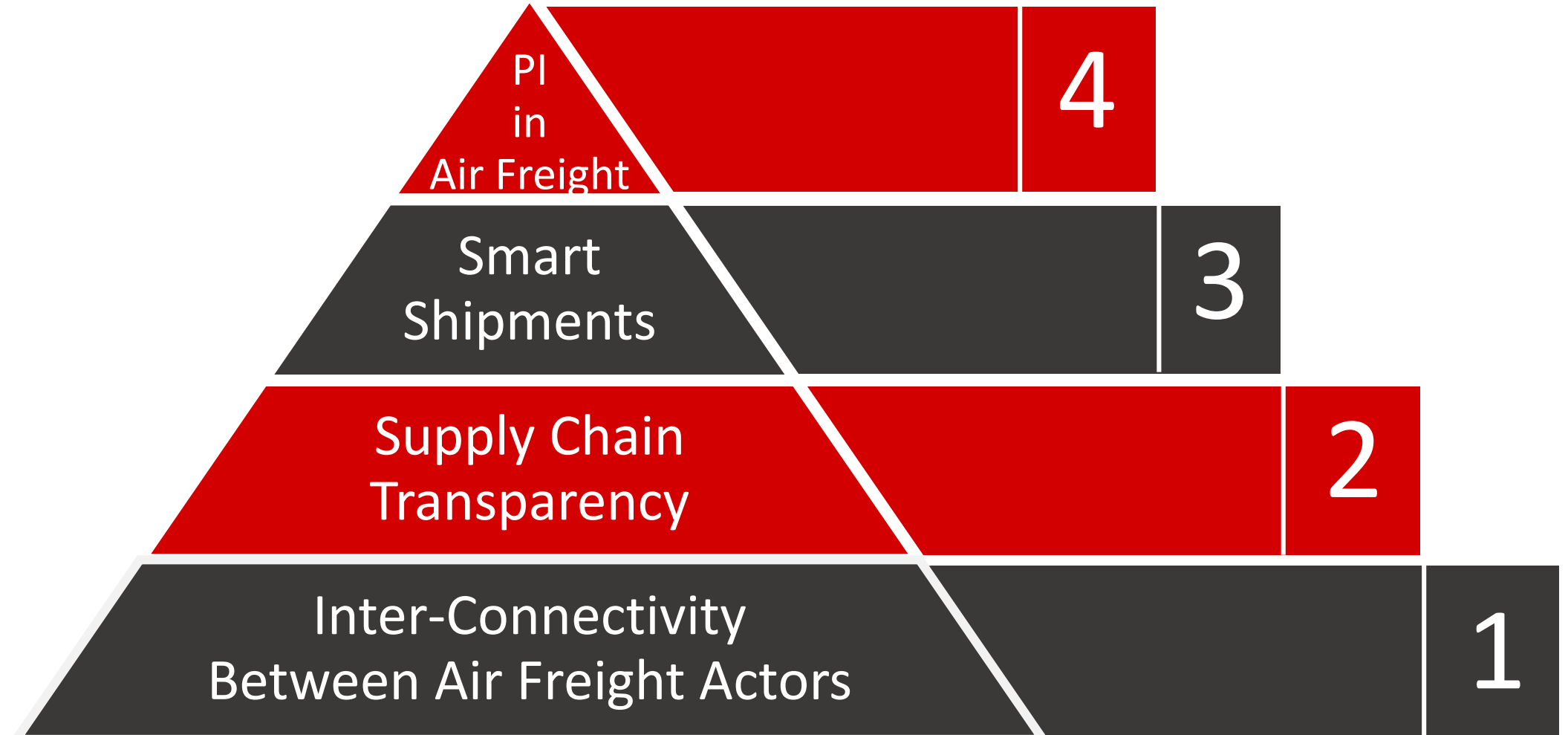• Our Community

→144 Members

ACB Community

At all times, our goals and objectives are in the interest of the air cargo community as a group and to the overall benefit of our industry.

AirCargoBelgium

AUTHORITIES

AIRLINE CARGO HANDLER

AIRLINE

SERVICE PROVIDERS

FREIGHT FORWARDER

TRUCKING COMPANY

AIRPORT

PI roadmap for air freight

4 PI in Air Freight

3 Smart Shipments

2 Supply Chain Transparency

1 Inter-Connectivity Between Air Freight Actors

PI roadmap for air freight

Why is air Cargo Belgium working on Physical Internet?

- We strive to make BRUcargo the most attractive, efficient, innovative and successful logistical platform
- We want to be a pioneer in PI in the air freight sector

Together with our community we are already working on several projects related to PI:
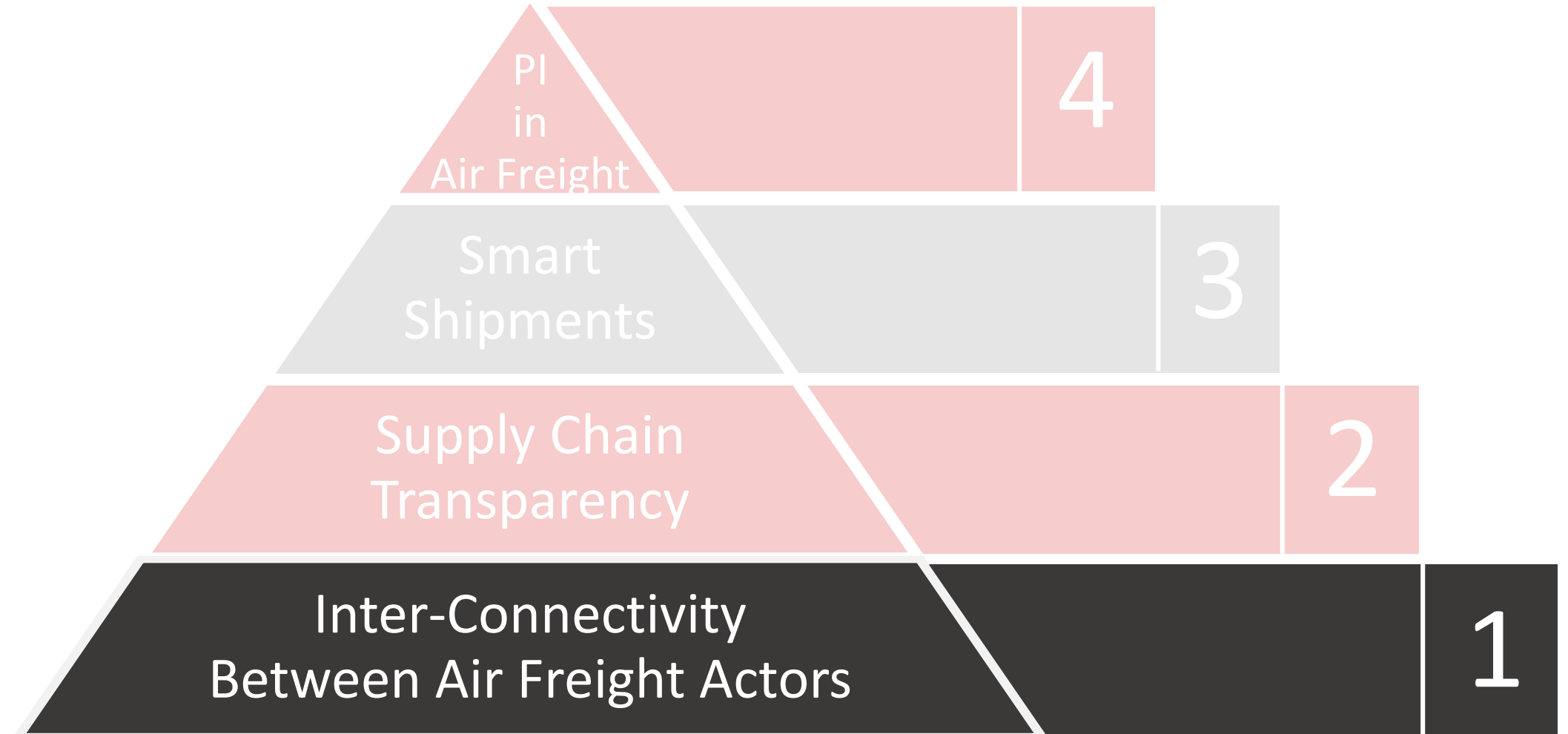
Clusters 2.0

Gateway2Government

Fenix
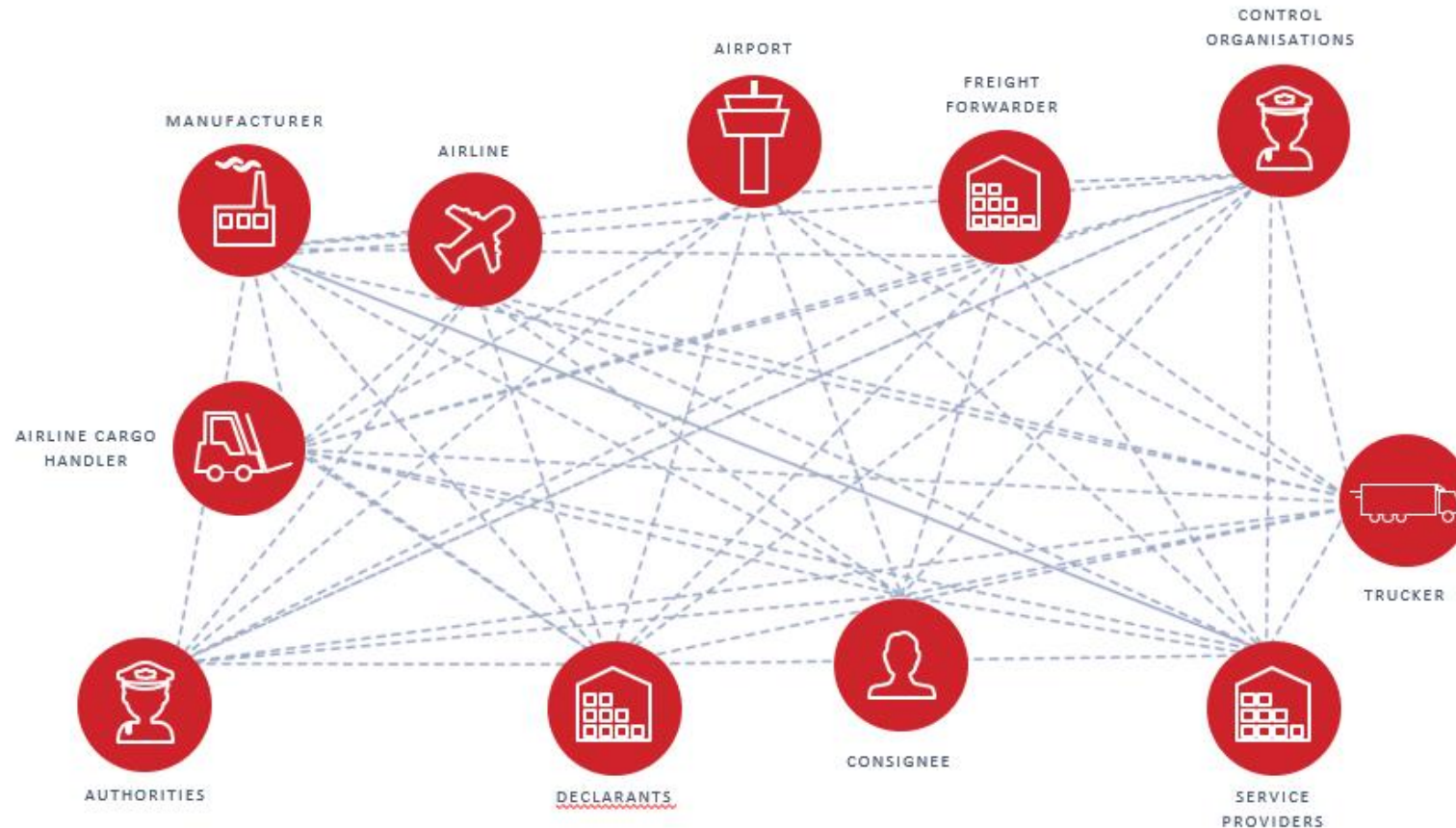
Local projects

PI roadmap for air freight

Scattered landscape
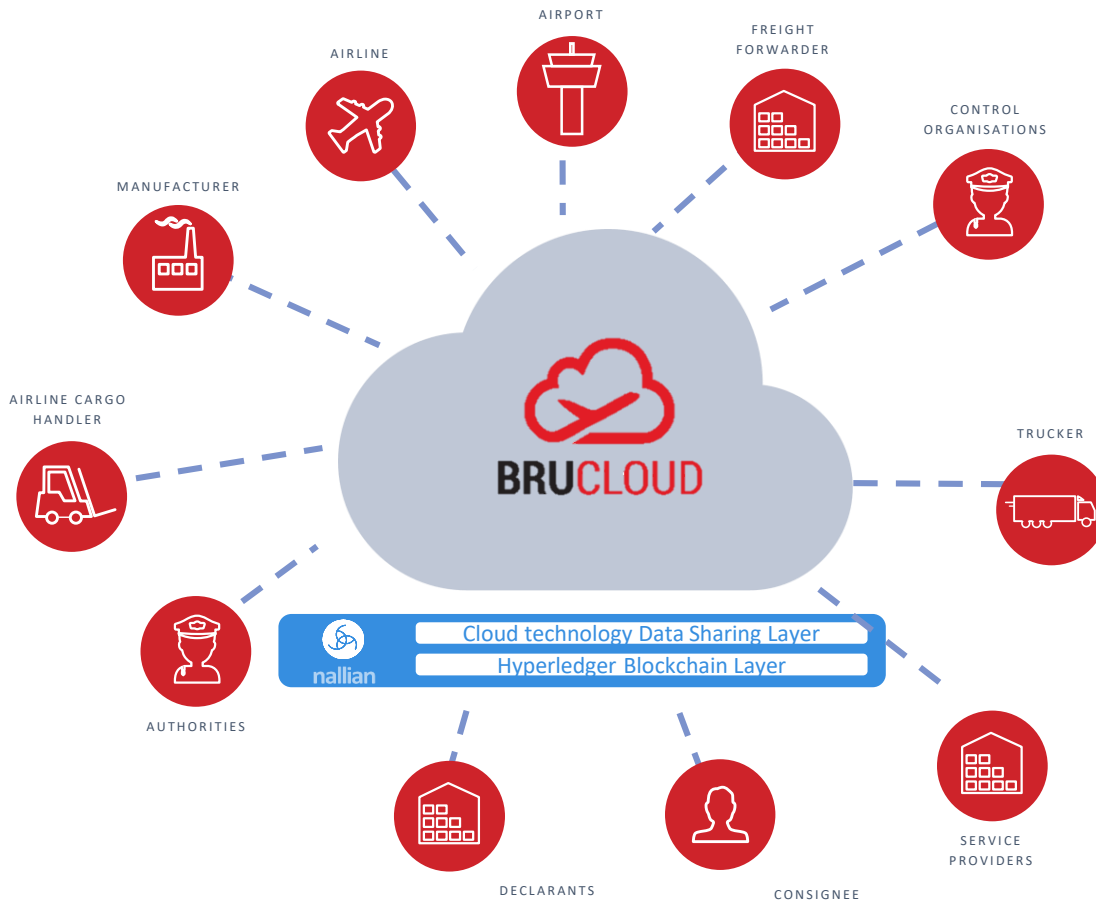
→ Inefficiencies, errors, no visibility

Inter-Connectivity Between Air Freight Actors

What if we start sharing data?

AIRPORT

AIRLINE

FREIGHT FORWARDER

CONTROL ORGANISATIONS

MANUFACTURER

AIRLINE CARGO HANDLER

TRUCKER

Cloud technology Data Sharing Layer
Hyperledger Blockchain Layer
nallian

AUTHORITIES

DECLARANTS

CONSIGNEE

SERVICE PROVIDERS

BRUCLOUD
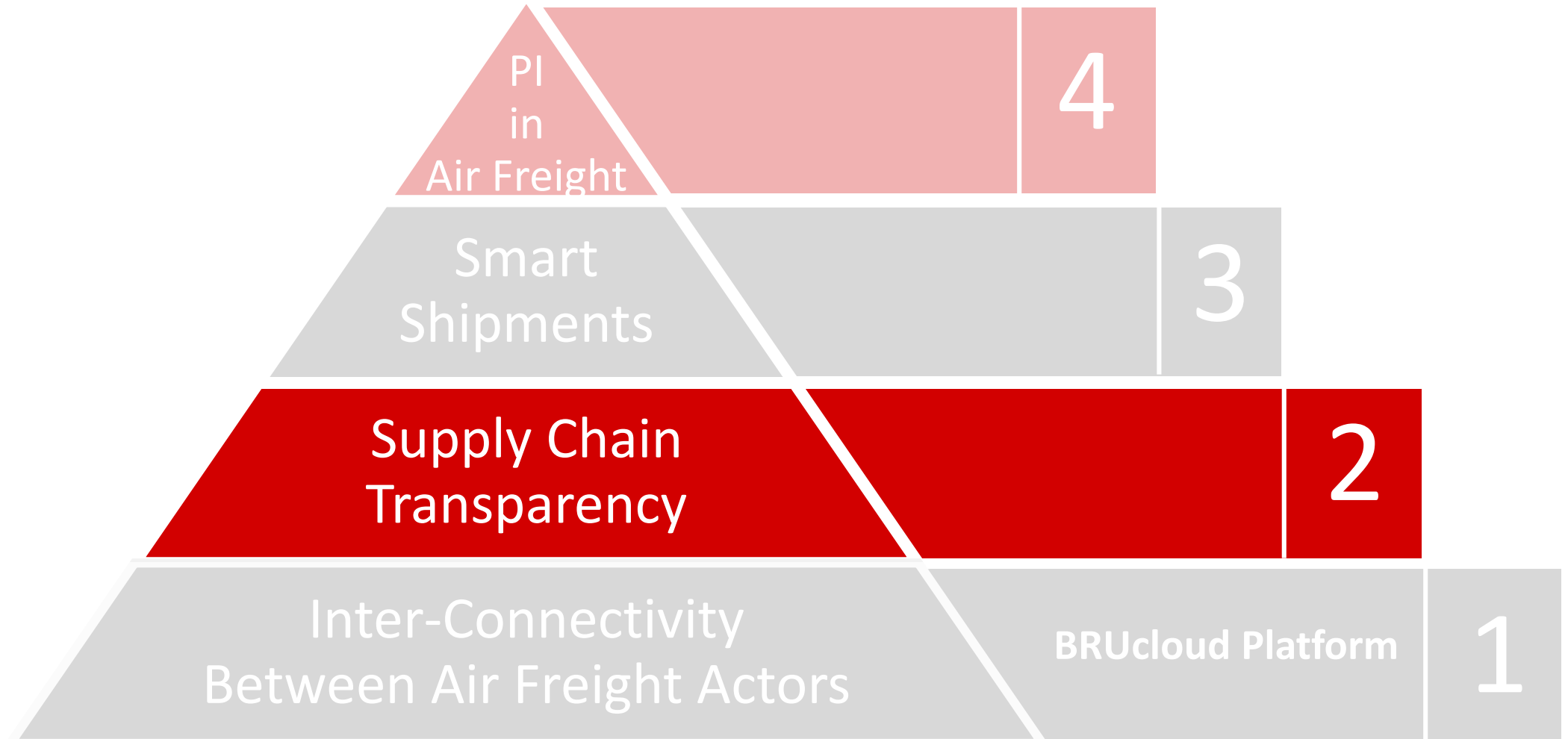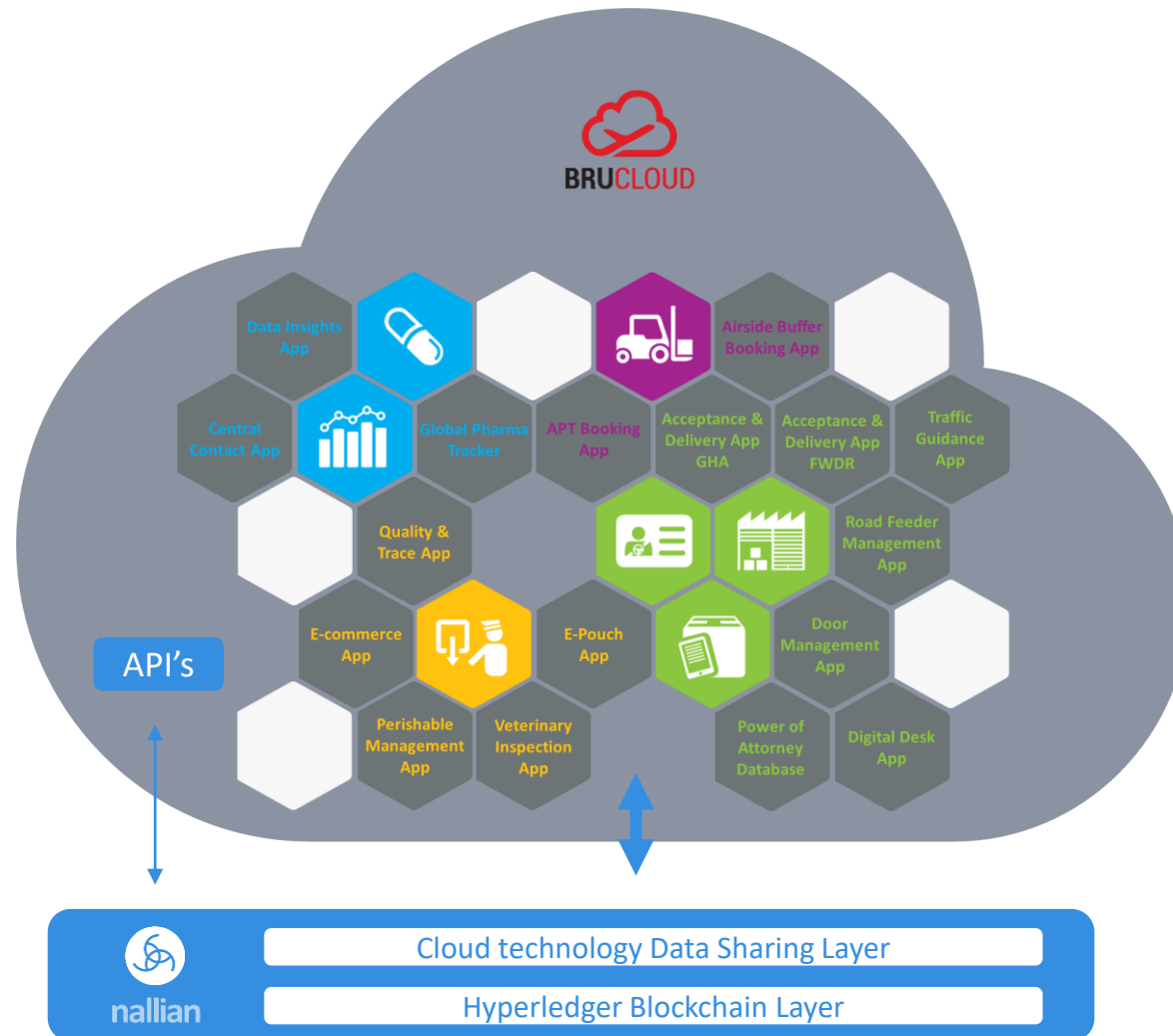
- The BRUcloud platform is **Brussels Airport Company** initiative operational as of 2015

- **Open data sharing platform**, with multiple **collaborative apps,** enabling to work more integrated and act as a network

- **Long term focus** and linked to global data backbone (cloud of the clouds)

PI roadmap for air freight

Supply Chain Transparency

Air Cargo Belgium brings partners together to operationally roll out the different apps

Supply Chain Transparency - Slot Booking App

Clusters 2.0

Supply Chain Transparency - Slot Booking App

Why?

Smoothen the process of freight delivery/pick-up at the GHA's facilities

Eliminate waiting times (peaks) and idle times

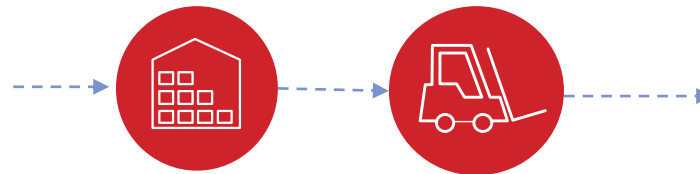Optimize personnel planning

BRUCLOUD

Central community approach

Transparency

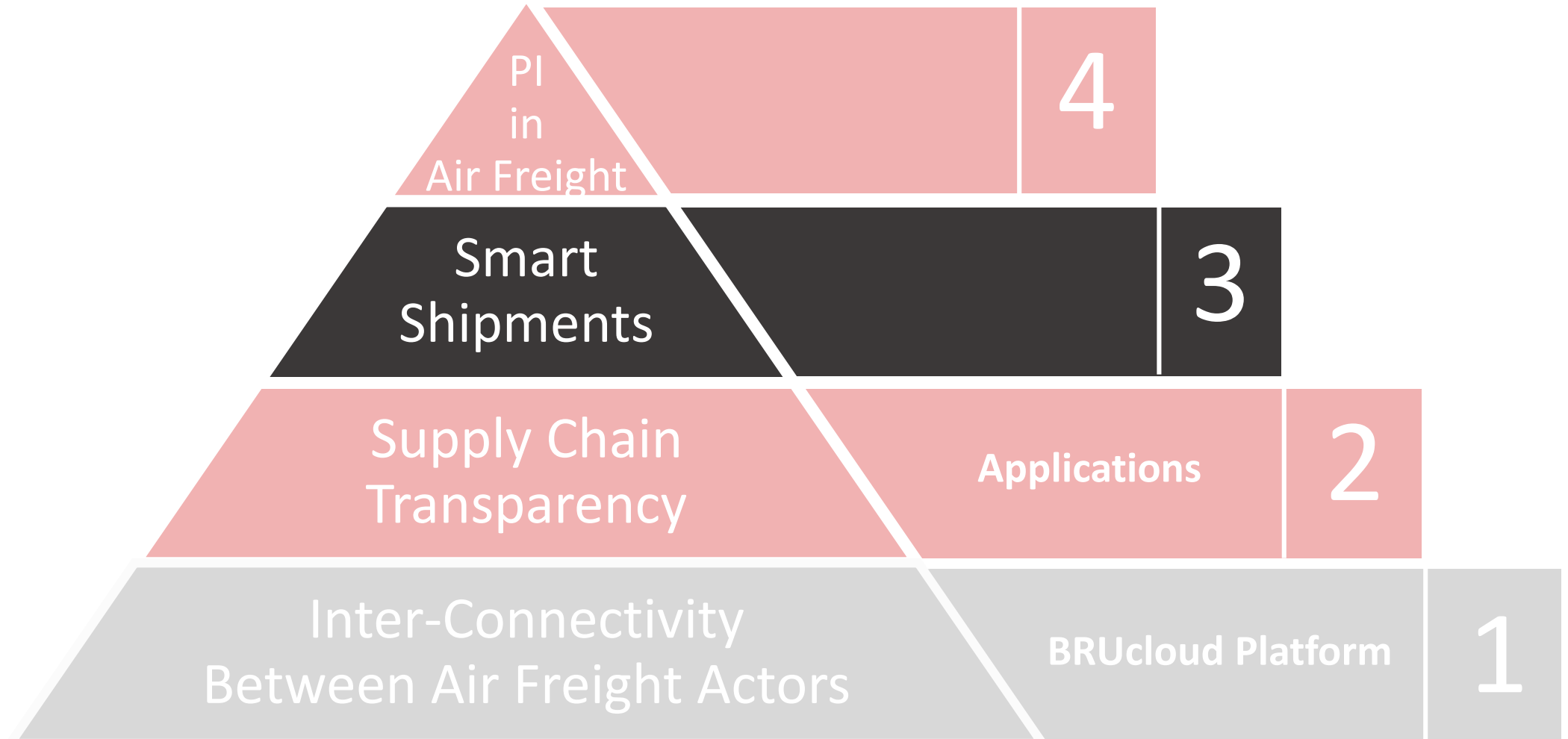# Supply Chain Transparency - Slot Booking App

Who?

Booker (freight forwarder):
- request a single or recurrent time slot
- via the same central web-application for all ground handlers/locations

Supplier (ground handler):
- make time slots for different cargo types available
- via the web-application or a system-to-system link with its intern slot management system

PI roadmap for air freight

PI in Air Freight — 4

Smart Shipments — 3

Supply Chain Transparency — Applications — 2

Inter-Connectivity Between Air Freight Actors — BRUcloud Platform — 1

What are the next steps?

- Big Data Analysis

- Artificial Intelligence Analysis

- Pilot cases with IoT devices

- Attract International partners

- Connect BRUcloud to other
  airport platforms and exchange data

- Let cargo find the their own
  way to the destination location

→Physical Internet

Smart Shipments - Towards Physical Internet

Grant Project Together started together with the province of Flemish Brabant: *"Physical Internet in the air freight industry"*
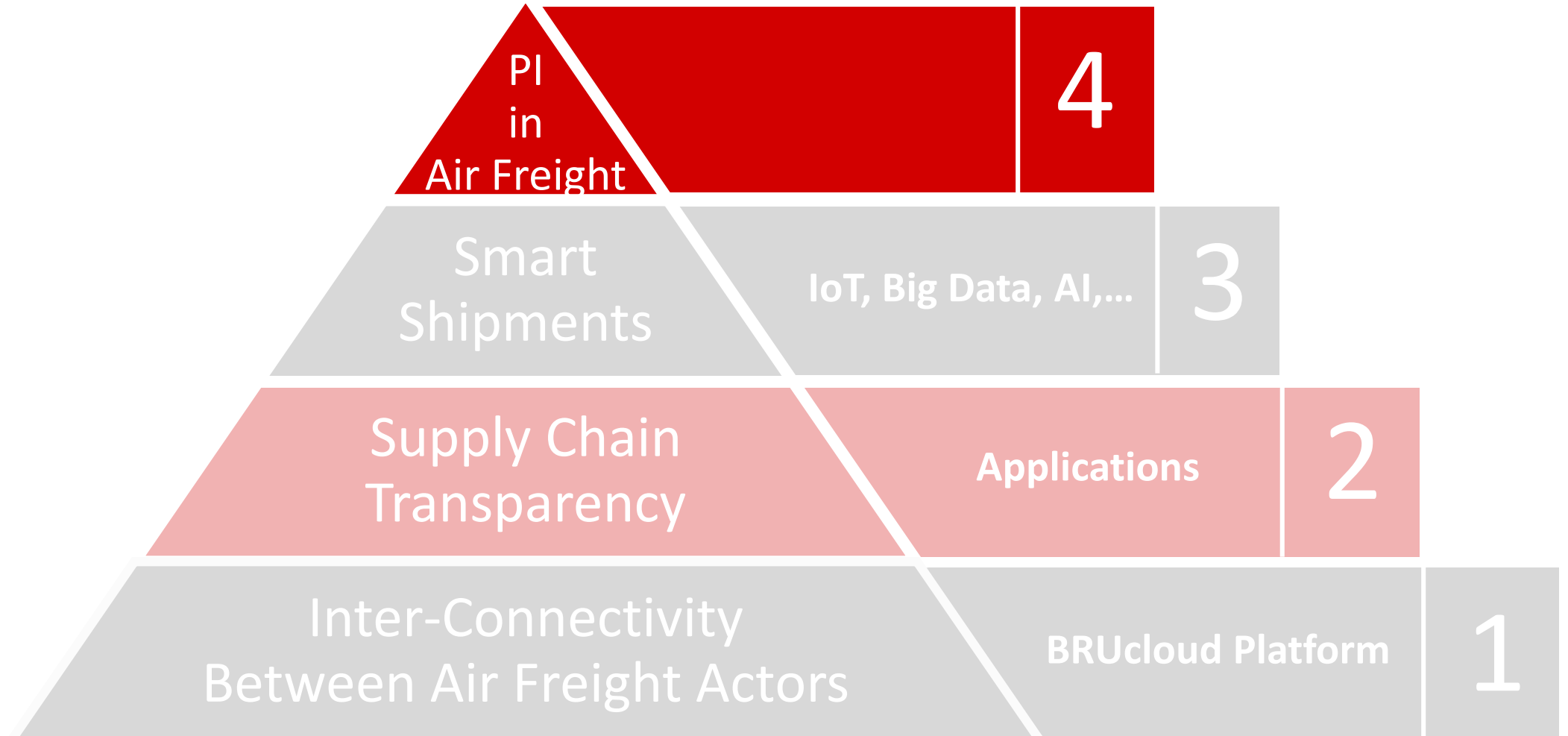
Scope:

- Developing roadmap to "Physical Internet in de luchtvrachtlogistiek"

- Local test cases: Internet of Things, Artificial Intelligence & Virtual Reality/Augmented Reality in air freight

Partners:

PI roadmap for air freight

- **4** — PI in Air Freight
- **3** — Smart Shipments · IoT, Big Data, AI,...
- **2** — Supply Chain Transparency · Applications
- **1** — Inter-Connectivity Between Air Freight Actors · BRUcloud Platform

π Physical Internet