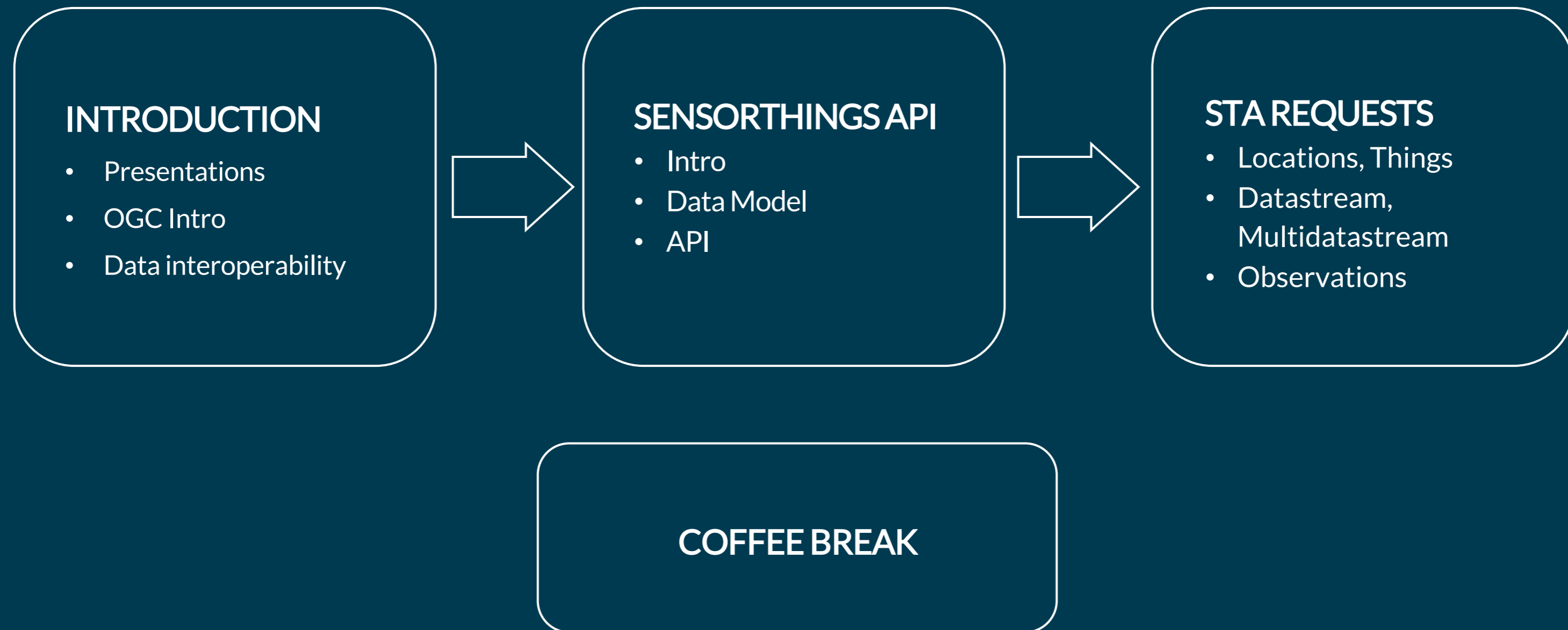


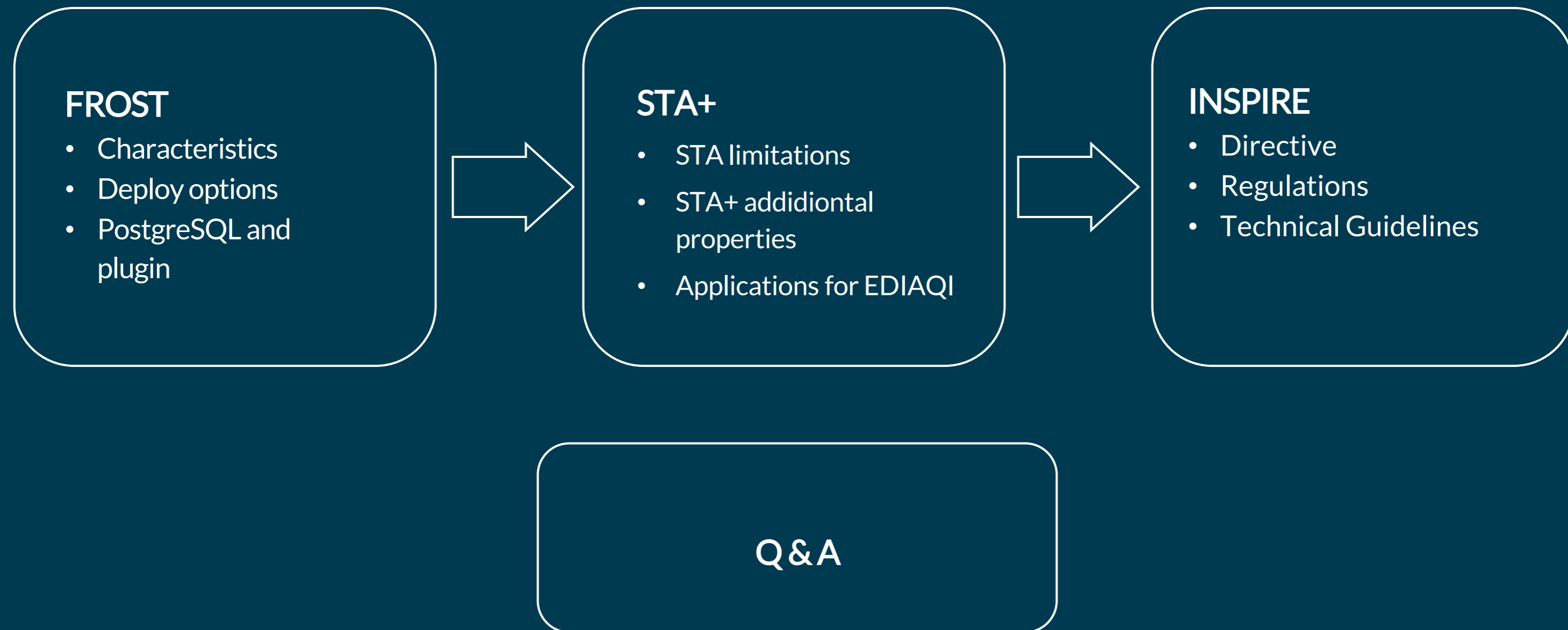
EDIAQI

Evidence
Driven Indoor
Air Quality
Improvement

First session (June 21st) – part 1



First session (June 21st) – part 2



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Training Session on data interoperability: SensorThings API standard and FROST open source server solution

On Wednesday 21st of June 2023, the first training session on data interoperability for sensors was held by the Deda Next team, titled "**SensorThings API standard and FROST open source server solution**".

The agenda included:

- Introduction (presentation, OGC)
- Examples of data interoperability
- SensorThings API (STA) standard
- STA requests



Second session (July 21st)



+



Hylke
van der Shaaf

Fraunhofer
Institute

Martina
Forconi

IT

Beatrice
Olivari

Analytics

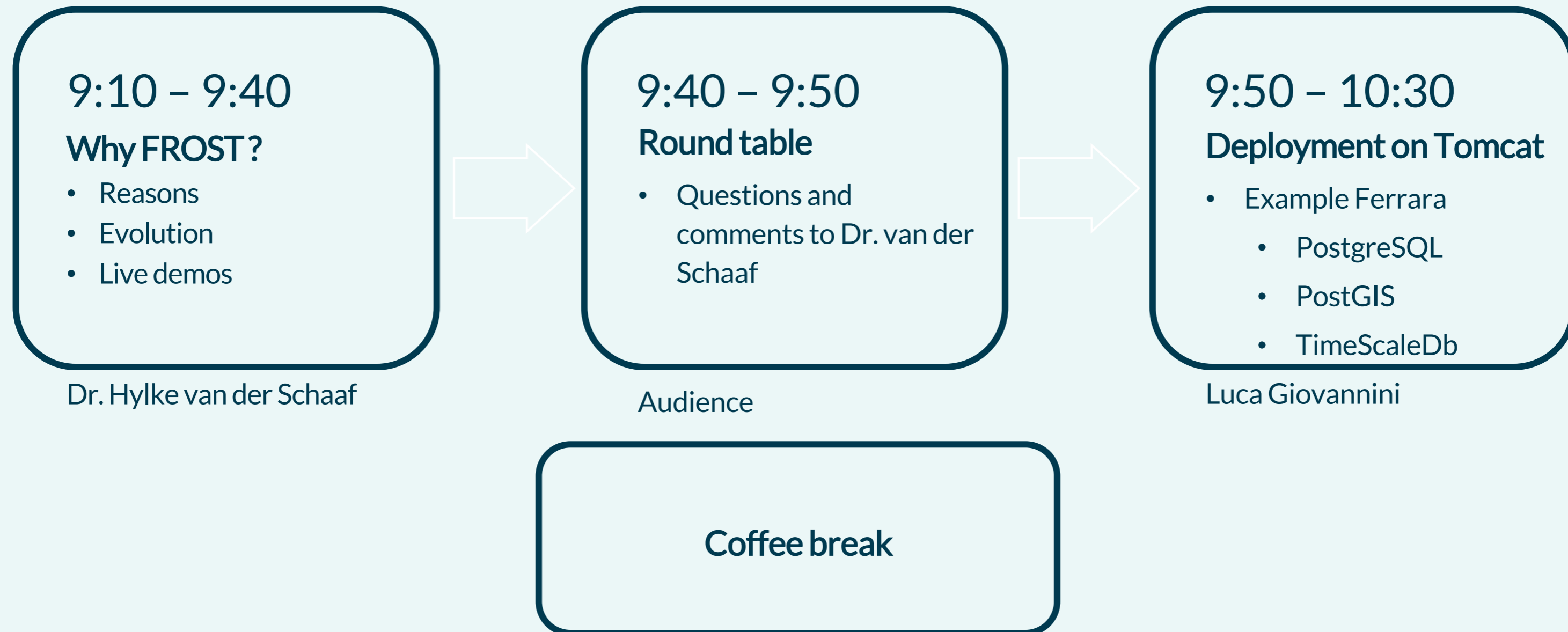
Piergiorgio
Cipriano

GIS

Luca
Giovannini

Data

Second session (July 21st) – part 1



Second session (July 21st) – part 2

11:00 – 11:15

Deployment Docker

- Brief how-to

Martina Forconi

11:15 – 11:45

Data ingestion w. NiFi

- Examples in Ferrara
 - weather
 - traffic
 - air quality (out)

Beatrice Olivari

11:45 – 12:00

Semantics for EDIAQI

- Parameters and UoM
- Frequency
- Location / Spatial

Piergiorgio Cipriano

Feedback and timeline

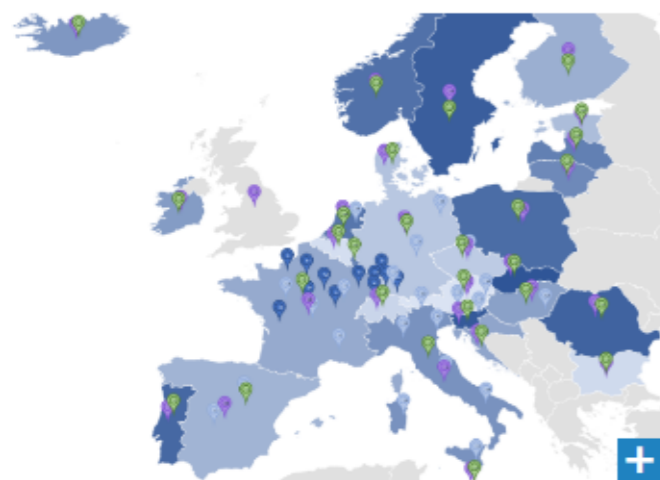
- Lab Service
- Thinnect
- Wings

Why FROST ?

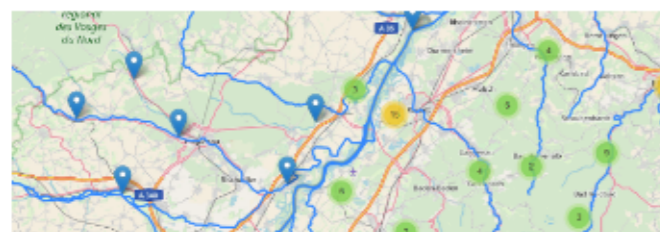


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FROST[®]-Server - An open source implementation of OGC SensorThings API




Locations of the data sources connected in API4INSPIRE



Description of the project

Against the background of the requirements from numerous applications in the mega trend topic "Internet of Things", the Fraunhofer IOSB decided to develop a server for the Standard SensorThingsAPI. The objective was to achieve high performance with low resource consumption and an openness that facilitates usability both in the research environment and in commercial applications.

Performance with low resource consumption and an openness that facilitates usability in both the research environment and commercial applications. The desire for openness led to the decision to design the implementation as open source software right from the start, in order to make the way as free as possible for innovation. The result is the FROST[®]-Server. The name is an acronym and stands for "Fraunhofer Open Source SensorThings API Server". But the name is also intended to suggest that your data is kept "fresh and available"

Meanwhile, the "SensorThings API" is recommended by the European Commission as "Good Practice" for the deployment of measurement data according to the INSPIRE guidelines: ["OGC SensorThings API as an INSPIRE download service"](#) 

Contact



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