

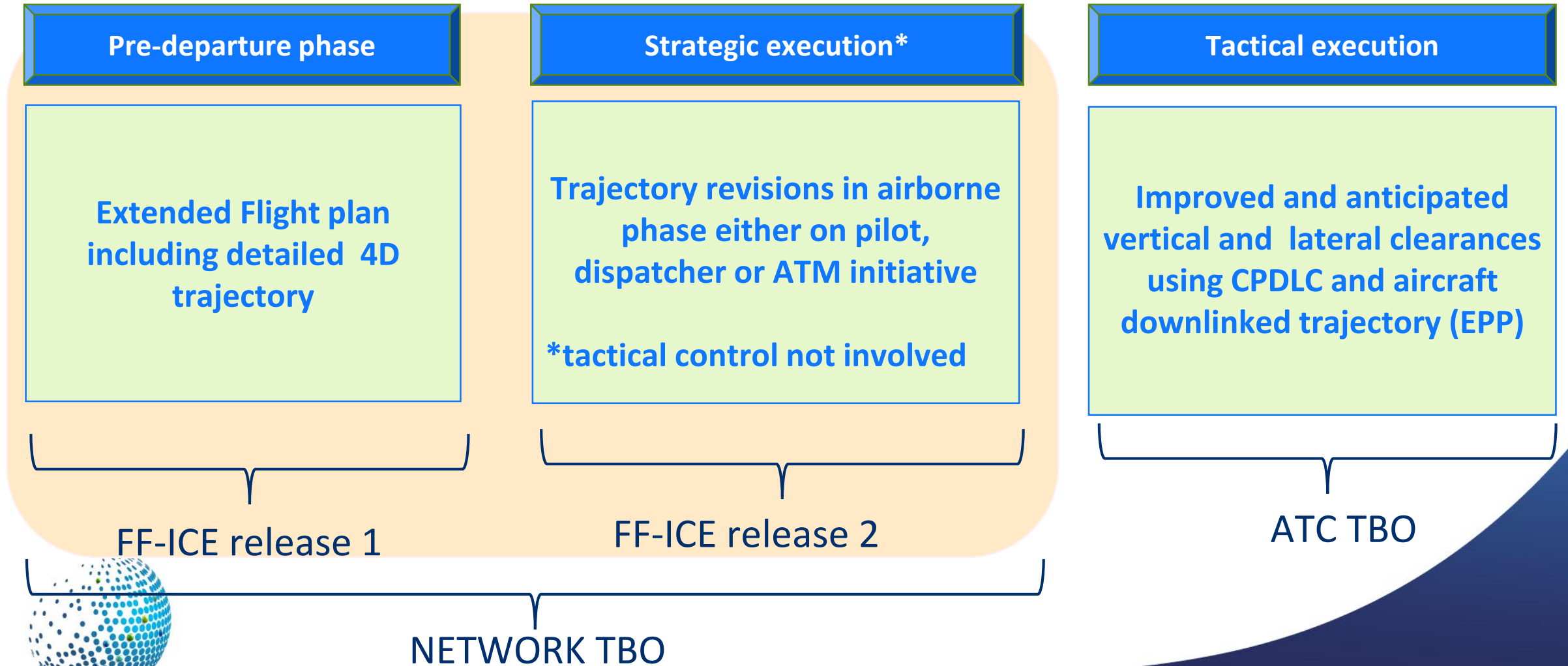
Network view of TBO & FF-ICE

G rard Mavoian

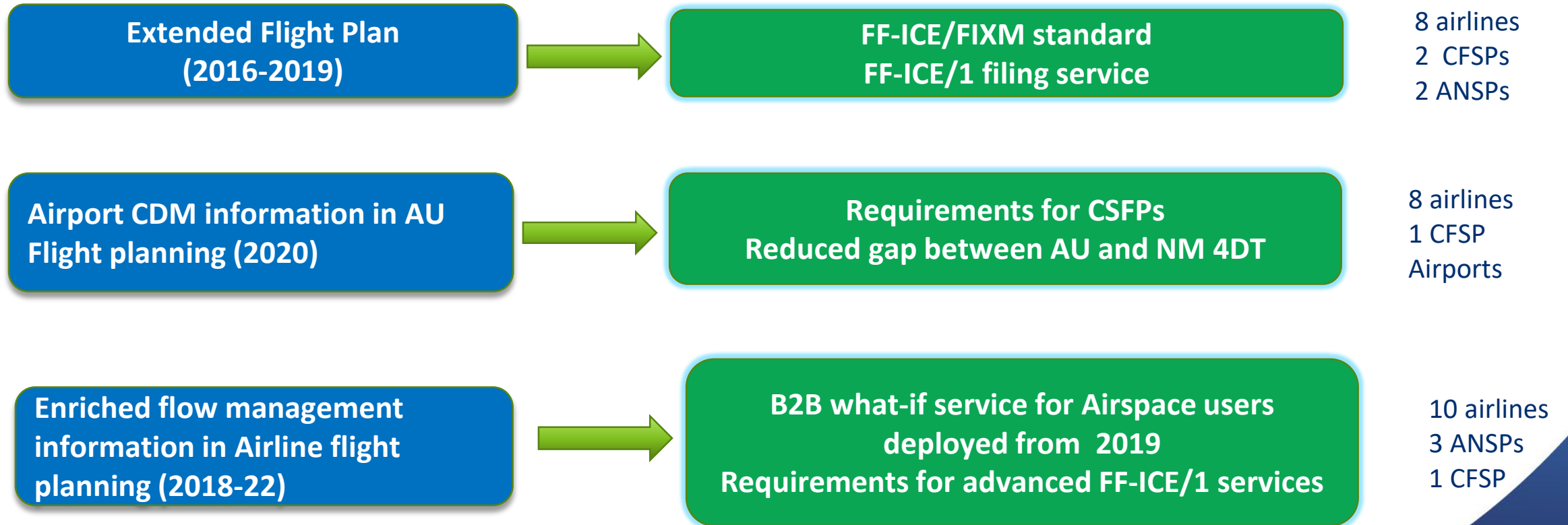
EUROCONTROL PJ07-W2 project coordinator

SESAR 2020 SHOWCASE

SESAR TBO overview & scope



NETWORK TBO – planning phase



Trajectory revision in strategic execution

Aligned with FF-ICE release2 development

Initial phase of development

TableTops:

- European tabletops
- Joint tabletops with FAA and NavCanada for interregional traffic



Trajectory revision in strategic execution

Initial tabletop in February 2022

More than 30 operational experts involved: FMPs, ATC supervisors, flight dispatchers, NM operators, airport traffic managers,

Learning and sharing information on TBO/FF-ICE

Identify operational benefits & use-cases

Identify information/services needs (Flight/Flow/Others)

Provide input to CDM processes

Discuss role automation/human

Identify R&D Needs



ICAO

SESAR

NM



Airborne trajectory revision (FF-ICE/2) -Scenario 1

Trajectory revision Trajectory revision on AU initiative due to Weather conditions change



1. Original agreed Trajectory: **Blue.**
2. New Optimized Trajectory calculated by AU: **Black**
3. Revised deviation proposed by NM: **Green**

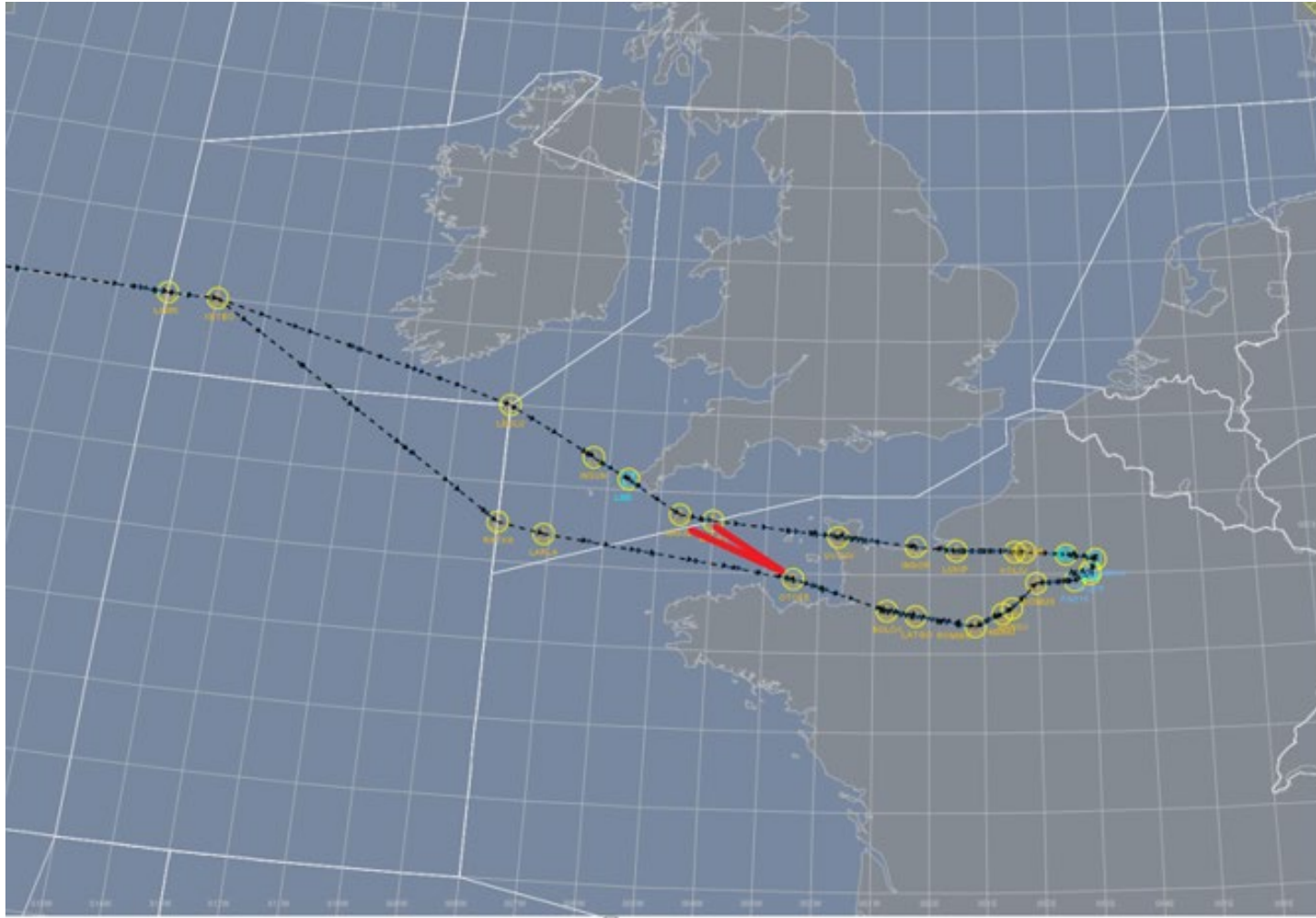
General principles

- Process similar to the planning phase for flight plan changes
- Flight Operation Centre involved
- NM main interface for Airspace users
- FOC – Pilot information exchanges through EFB

Main benefits:

- Trajectory optimisation
- Reduced workload
- Better manage network impact

Trajectory revision on airport initiative - Scenario 2



SESAR 3 – NETWORK TBO project solutions

| NETWORK TBO-1 Pre-flight phase & FF-ICE/1 | NETWORK TBO-2 Strategic execution & FF-ICE/2 | NETWORK TBO-3 Inter-ACC coordination & network |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Advanced FF-ICE1 services Improved integration of ATC/airport information in planning phase AU trajectory | Trajectory revisions in execution. Focus on CDM processes involving all ATM actors and AU flight dispatch. Include inter-regional trajectory revisions | Inter-ACC coordination information exchanges involving the Network Manager |

Industrial Research project
2023 -2026 period

