



# FRENCH PERSPECTIVES ON FUTURE COMBAT AIR SYSTEMS

*An ambitious European project open to partnership*

Stockholm - October 8<sup>th</sup>, 2019



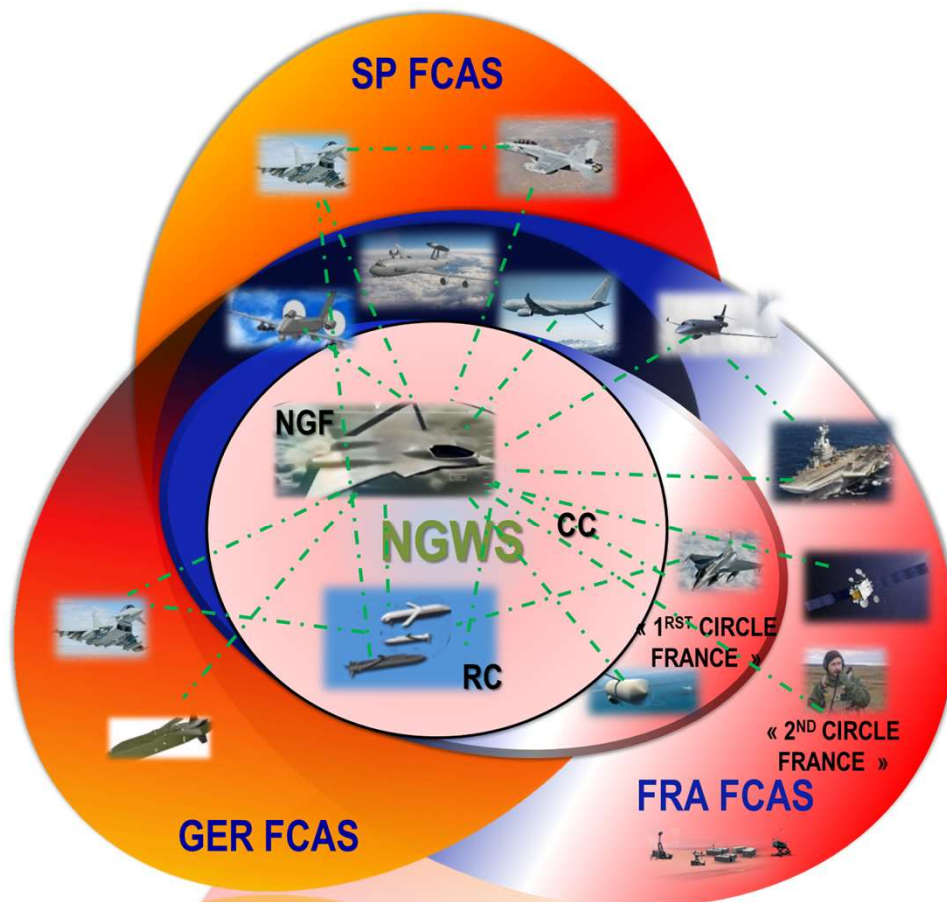
Pending NDA or specific arrangement, this information originated by France on the frame of SCAF/FCAS/NGWS project cannot be transmitted to third countries, to Industry or to international organizations without French approval. This includes:

- § French information transmitted to Swedish Government
- § Joint information
- § Information that Sweden could produce from French or joint data





# « Next Generation Weapon System (NGWS) within a FCAS » : a FR/GE/SP converged vision



## Missions

- Acquire & maintain air superiority
- Execute operations from the 3<sup>rd</sup> dimension

## Interoperability

- Connectivity
- Simulation

## Challenges

- Set up a standard
- Master connectivity network

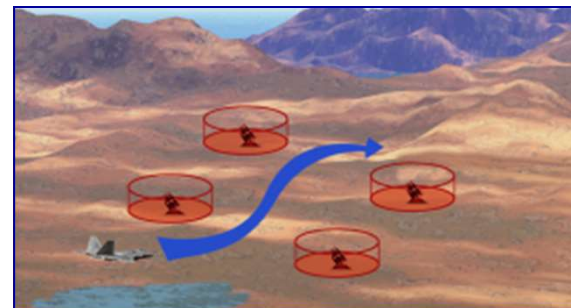




# MISSIONS

## Requirements

- **Operate in an highly contested environment**
  - Gain and maintain Air superiority
  - Fight through 3D on all environment spectrum (air, ground, sea, space, cyber)
- **Interoperability: within Eu – NATO/US**



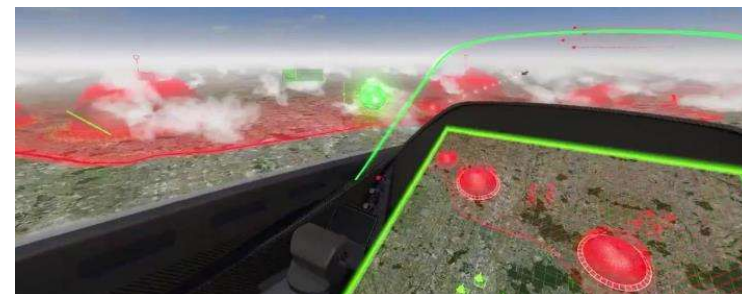
## CONCLUSIONS

- **Duel is past/ “one-fits-all” is no more realistic**
- **Need:**
  - System of systems approach
  - (Dynamic) performance distribution
  - Flexibility-Agility



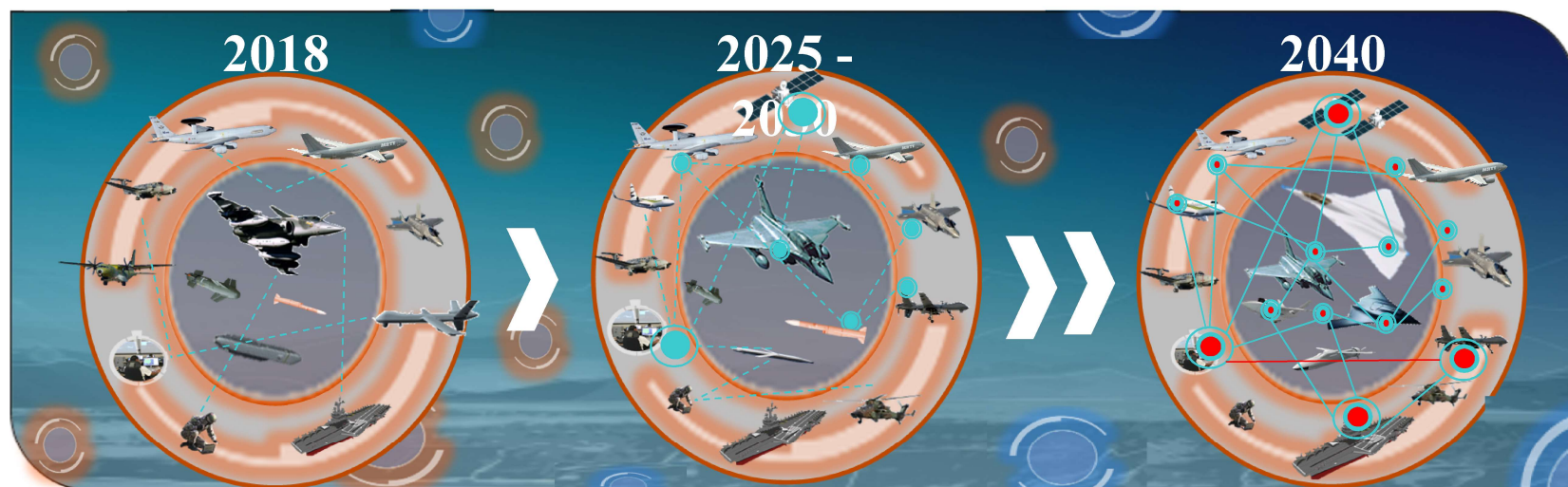


# CONNECTIVITY AND COMBAT CLOUD CHALLENGE



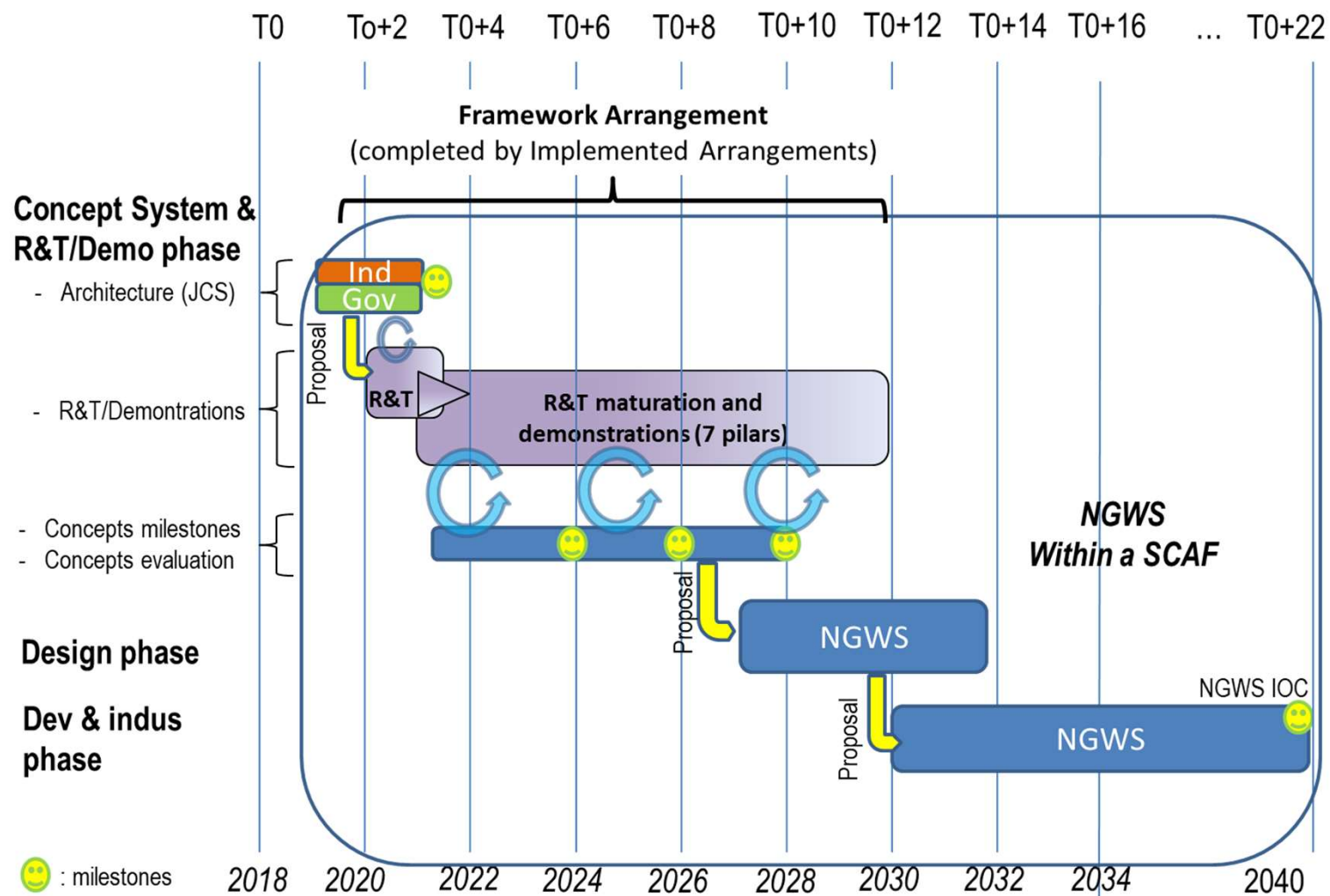
Immediate take off needed now to be ready in 2040

- From now, on all the future capabilities (Fighters NG and legacy Fighters, AWACS, navy and ground elements)
- Step by step approach :





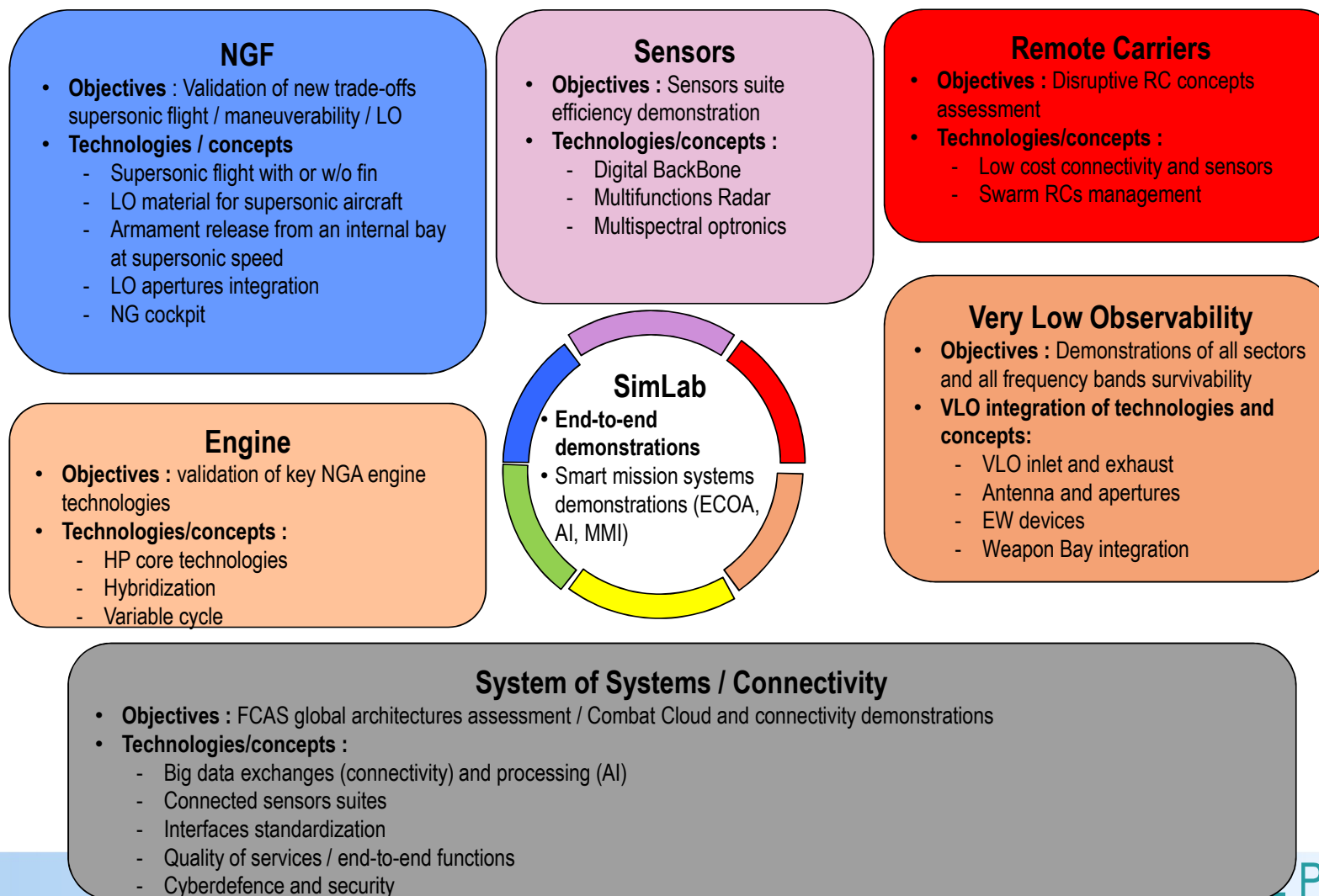
# ROADMAP







# R&T STUDIES : a demonstration project built upon 7 pillars





# Q & A



**AUTOUR DE  
L'AVION DE CHASSE  
DU FUTUR**

EQUIPE DE PROJET SCAR