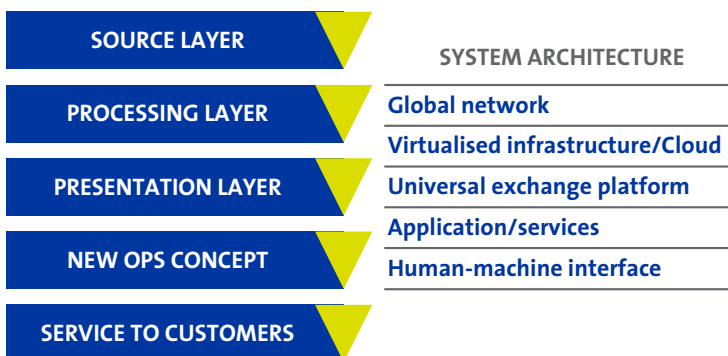
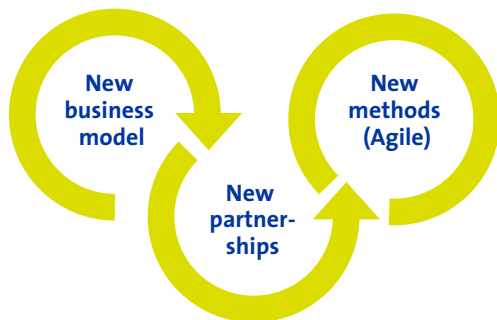


DIGITALIZATION CREATE A NEW LAYERED MODEL



PHILIPPE CHAUFFOUREAUX CHIEF INFORMATION ARCHITECT

Air Navigation Services (ANS) did rely for a long time on the treatment of analog signals, which were then interpreted by our air traffic controllers. The “digital-native” drone industry is now shaking up our legacy model. To counteract the fragmentation and lack of agility in the current ATM environment, the benefits of digitalisation, and its benefits, need to be urgently implemented to improve the performance and quality of services, states Philippe Chauffoureaux, chief information architect at skyguide.



LAYERED ARCHITECTURE

SKYGUIDE **How is digitalisation transforming your technical services?**

PHILIPPE CHAUFFOUREAUX By breaking the current vertical integration inherited from signal processing to create a new-layered model, we will obtain uniformity, seamless access, solution scalability and new capabilities. Technological elements such as virtualised platforms, cloud computing, Service-Oriented Architecture (SOA), Agile frameworks and DevOps principles contribute to create the new operating model.

How is the Virtual Centre Programme supporting this transformation?

PC The Service-Oriented Architecture infrastructure (SOI) was implemented by this Programme as the core of our new operational assets. The first SOI-migrated tool was CRYSTAL, the air traffic forecasting application, deployed in 2018. Then were implemented operationally the first steps of New Route Handling (NRH).

Which further development do you anticipate?

PC Beyond our current efforts, technologies booming in other areas such as artificial intelligence or block chain technology are opening up new opportunities. However, capturing their benefits will only be possible if built on top of a properly layered architecture.