

# EASA Aviation Safety Conference

## Utilising Technologies, Maintaining the Technology Flow

Rolf Henke

Budapest 30 October 2024



**AVIATION  
STRATEGY  
AND  
CONSULTING**

*avisc.de*



# The core subject of our panel:

## Technologies to enhance safety in aviation



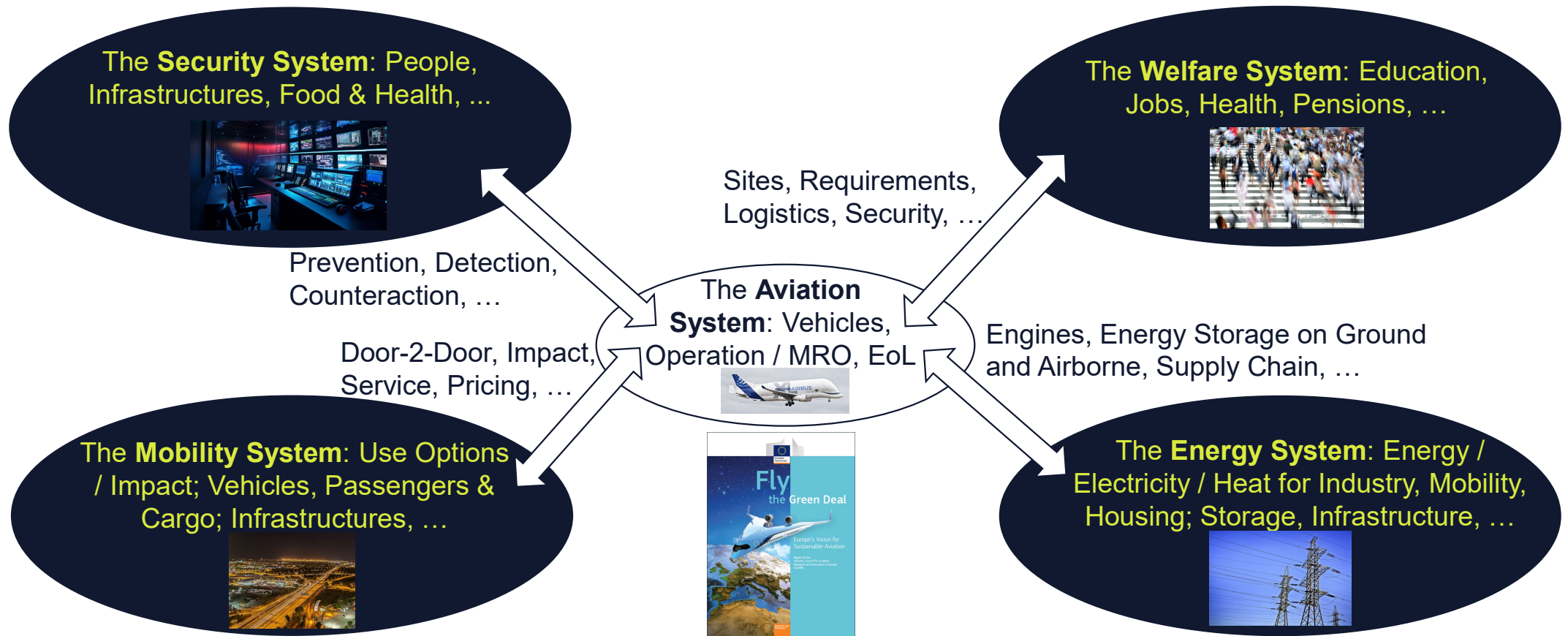
Technologies are needed for efficiency, reliability, seamlessness, safety, security.

This asks for a multi-purpose, i.e. a broad level design, not for a peak design and system architecture.

This may result in degradation in one aspect for the sake of the balance; managements and politics have to allow for that.

## Take an even broader approach

### From an aviation system-of-system to a society system-of-systems

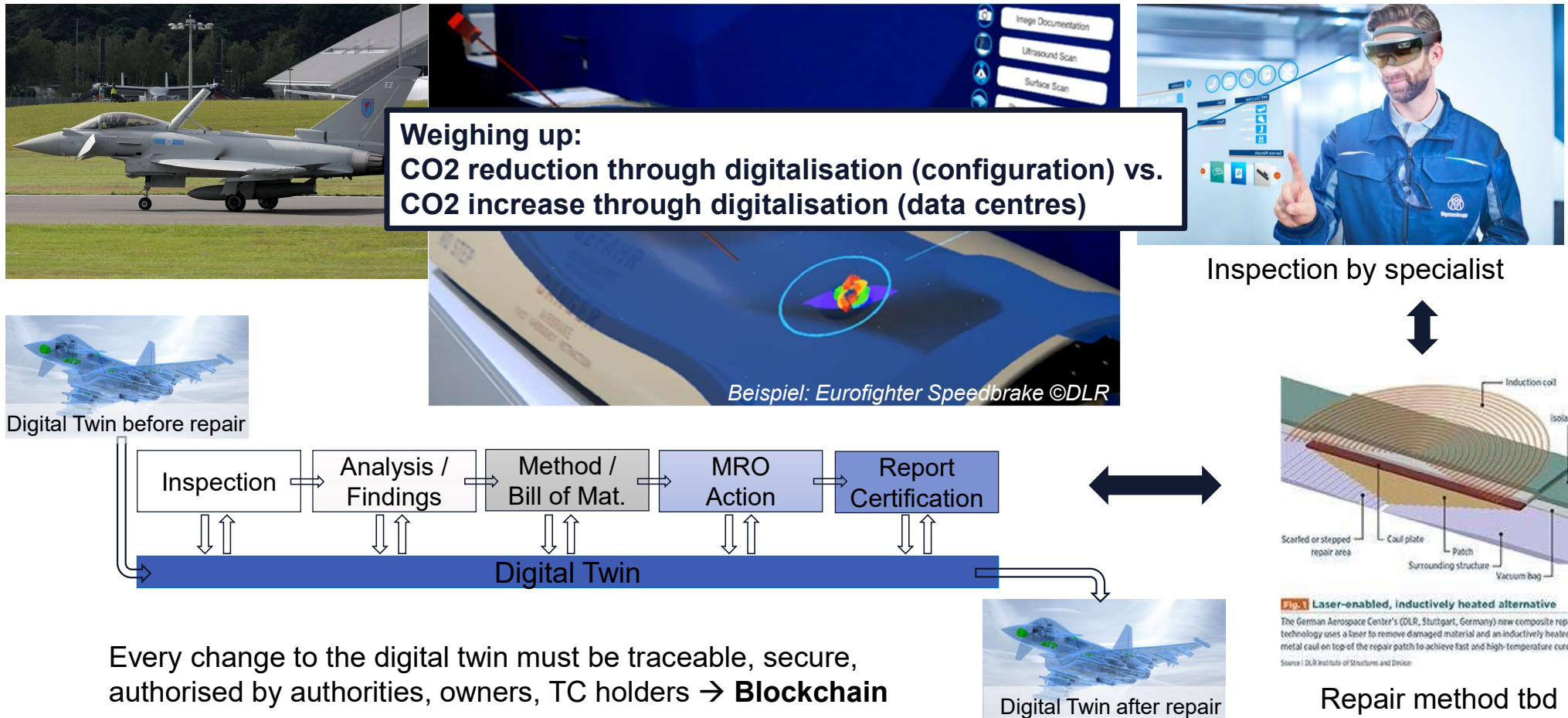


Quote from ACARE / EC Aviation Vision „Fly the Green Deal“: „The **aviation system-of-systems** is increasingly being seen as one indispensable, embedded **part of a broader system-of-systems** providing mobility as a service. While presenting new opportunities, these developments **raise new safety and security challenges.**“



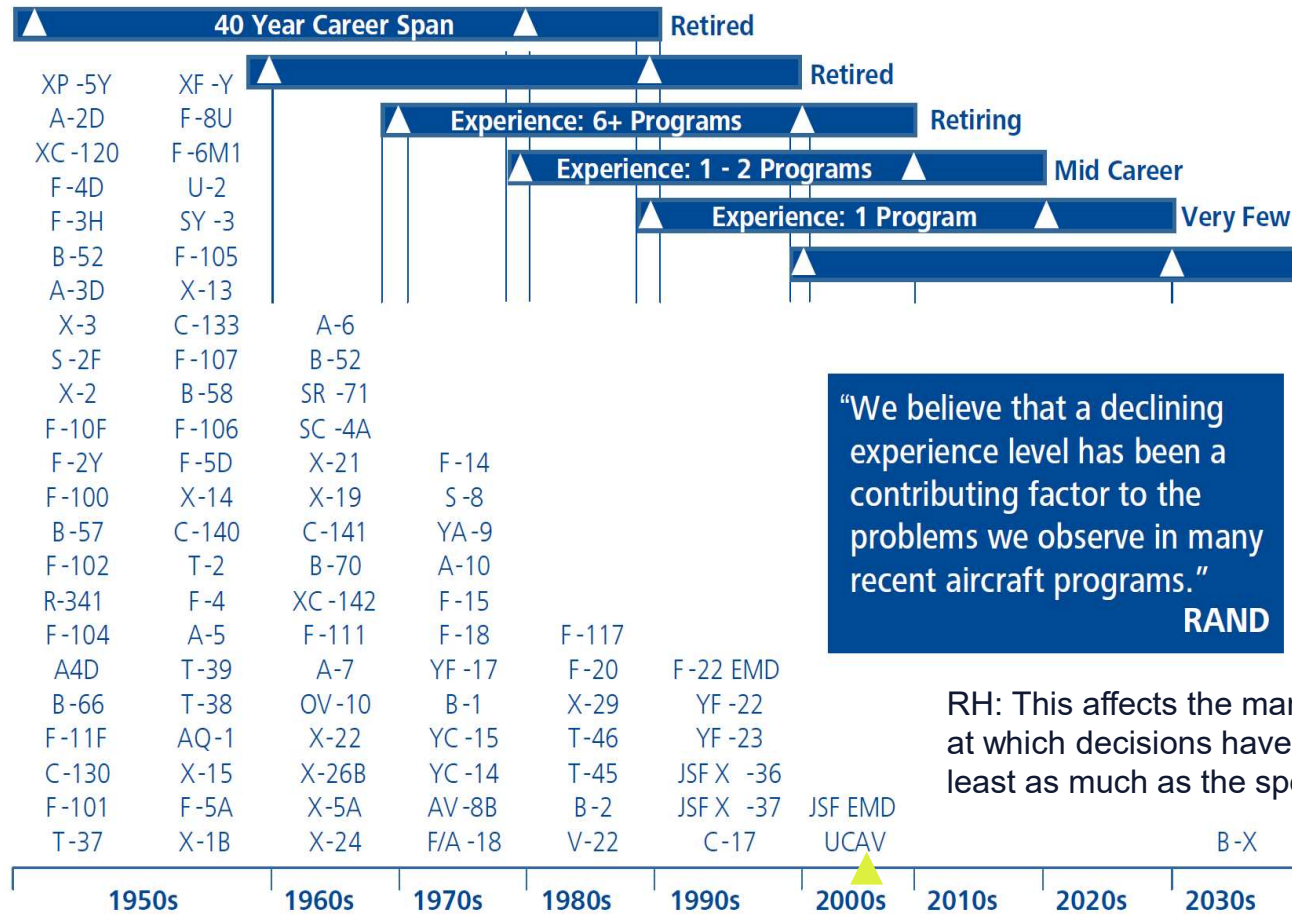
# Just two issues on our path to the future

## Example 1: The „digital thread“ in MRO



## Just two issues on our path to the future

### Example 2: New paths without guides?



RAND Corp. © Study 2006



‘Game Changer’ - certification requirements will be enormous...





# Key Messages

- In order to make future decisions based on knowledge, we should make more use of large programmes such as the EU Joint Undertakings to maintain experience on technical as well as on management level
  - For an unbiased approach to exploring new technologies, we need more open research at universities and research institutions that is not orientated towards the expectations and needs of politics or industry
    - In the past, aviation safety efforts have already been very successful, now aviation must play a dominant role if it is not to be a pacesetter in a cross-sectoral approach of a “system-of-systems”, this asks for a new look on safety and technologies
      - To meet these challenges with a system-of-systems view, we need more living labs and funding mechanisms to manage all this.