

VIVACE Forum 2

Act 6

Design optimisation methods



VIVACE

E. Kesseler

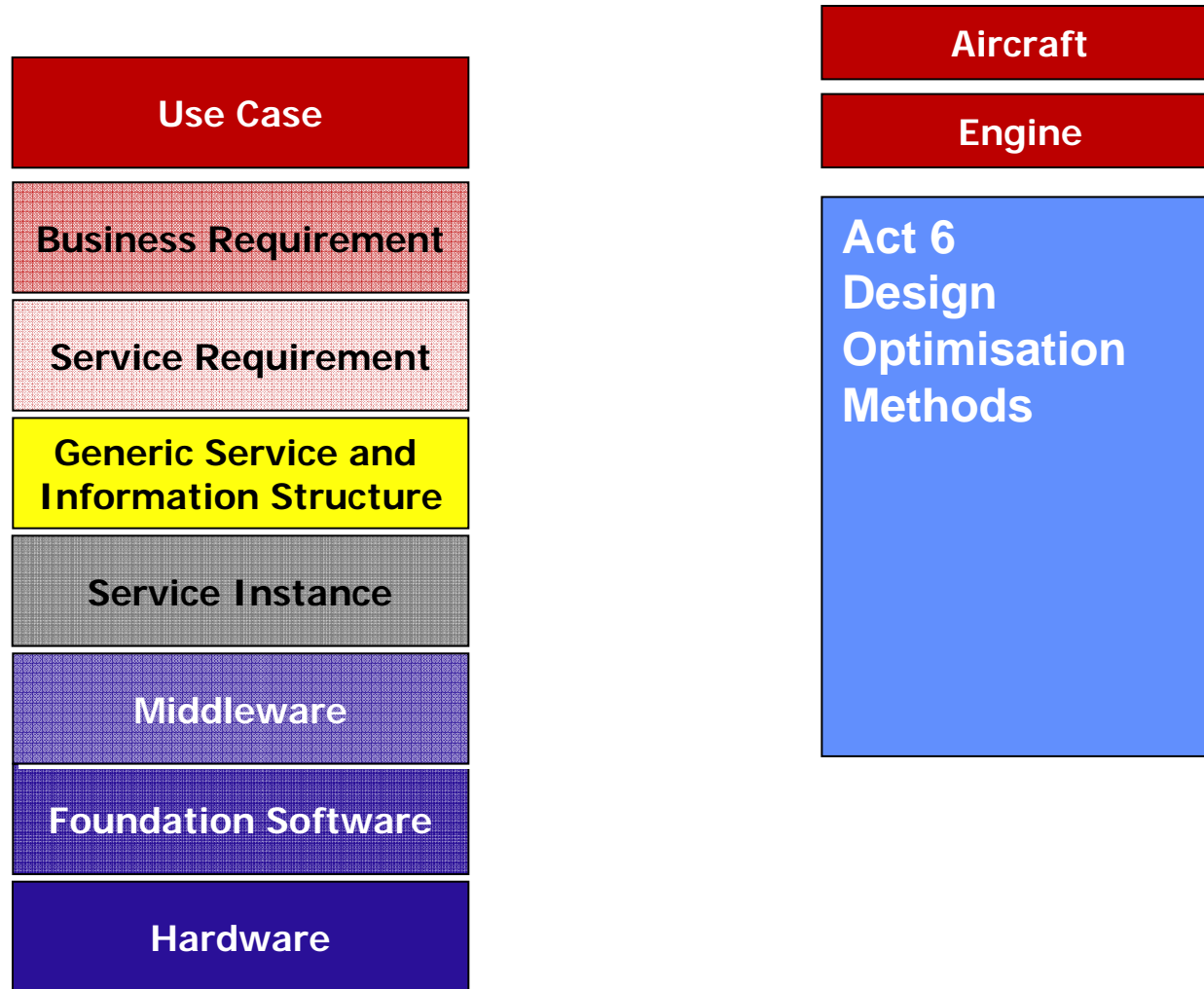
kesseler@nlr.nl

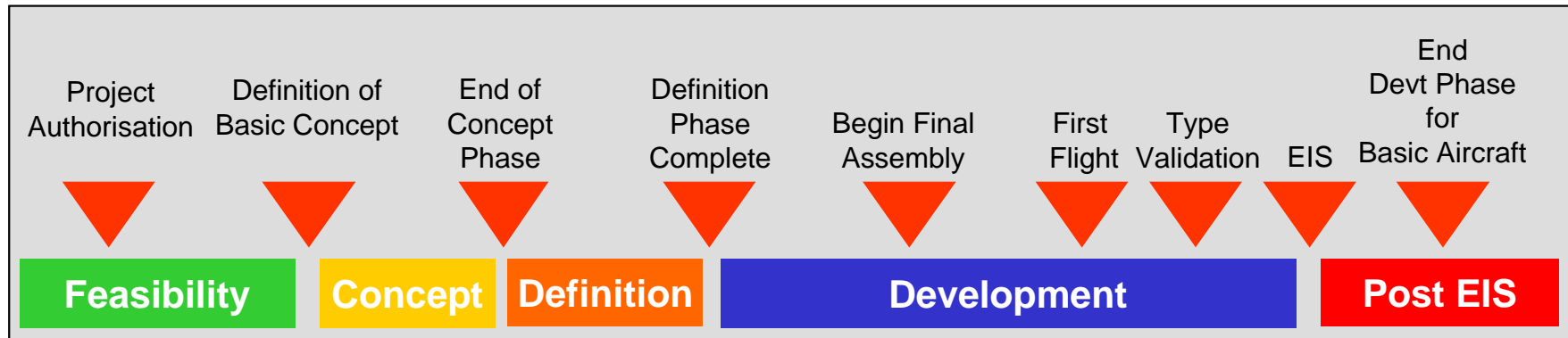
24-26 October 2006, Den Haag, the Netherlands



Virtual aircraft & engine simulation

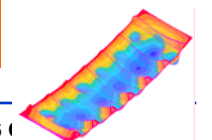
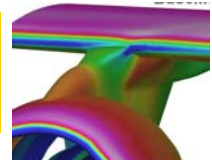
VIVACE Integration framework

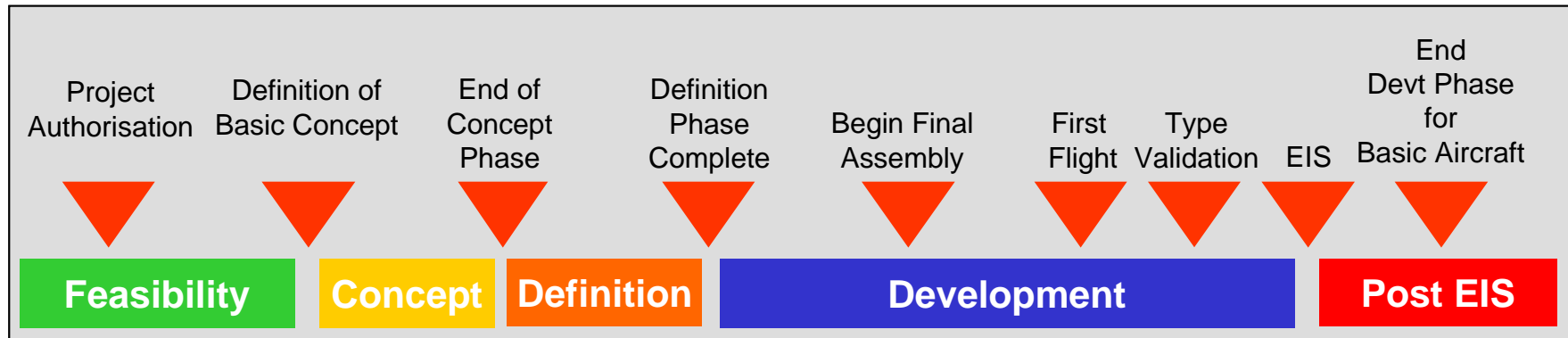




Scene 1 Optimisation of components and systems

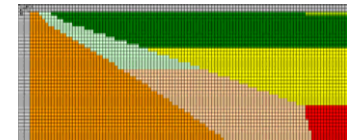
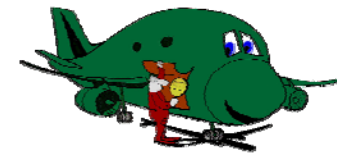
- Applying optimisation to a multi-disciplinary aircraft wing design case
- Multidisciplinary and aerodynamic optimisation of an engine power plant
- Multidisciplinary optimisation of an assembly
- Advanced computational structure mechanics optimisation





Scene 2 Supportability Considerations

- Maintenance optimisation model
- Maintenance programme evolution





Design together Gain together

**VIVACE
Act 6**

Design optimisation methods

**Thank you for your attention and
Enjoy the presentations**

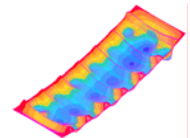
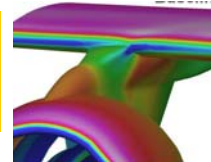
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Timing act 6 morning

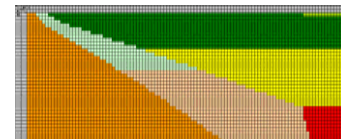
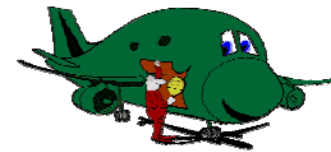
Scene 1 Optimisation of components and systems

- **9:10 Applying optimisation to a multi-disciplinary aircraft wing design case**
- **9:55 Multidisciplinary and aerodynamic optimisation of an engine power plant**
10:25 break
- **11:00 Multidisciplinary optimisation of an assembly**
- **11:30 Advanced computational structure mechanics optimisation**



Scene 2 Supportability Considerations

- **12:00 Maintenance optimisation model**
- **12:30 Maintenance programme evolution**
- **12:50 lunch**

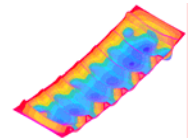
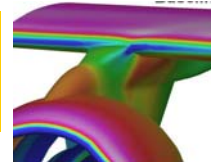




Timing act 6 afternoon

Scene 1 Optimisation of components and systems

- **14:10 Applying optimisation to a multi-disciplinary aircraft wing design case**
- **14:55 Multidisciplinary and aerodynamic optimisation of an engine power plant**
15:25 break
- **15:40 Multidisciplinary optimisation of an assembly**
- **16:10 Advanced computational structure mechanics optimisation**



Scene 2 Supportability Considerations

- **16:40 Maintenance optimisation model**
- **17:10 Maintenance programme evolution**
17:40 end of day

