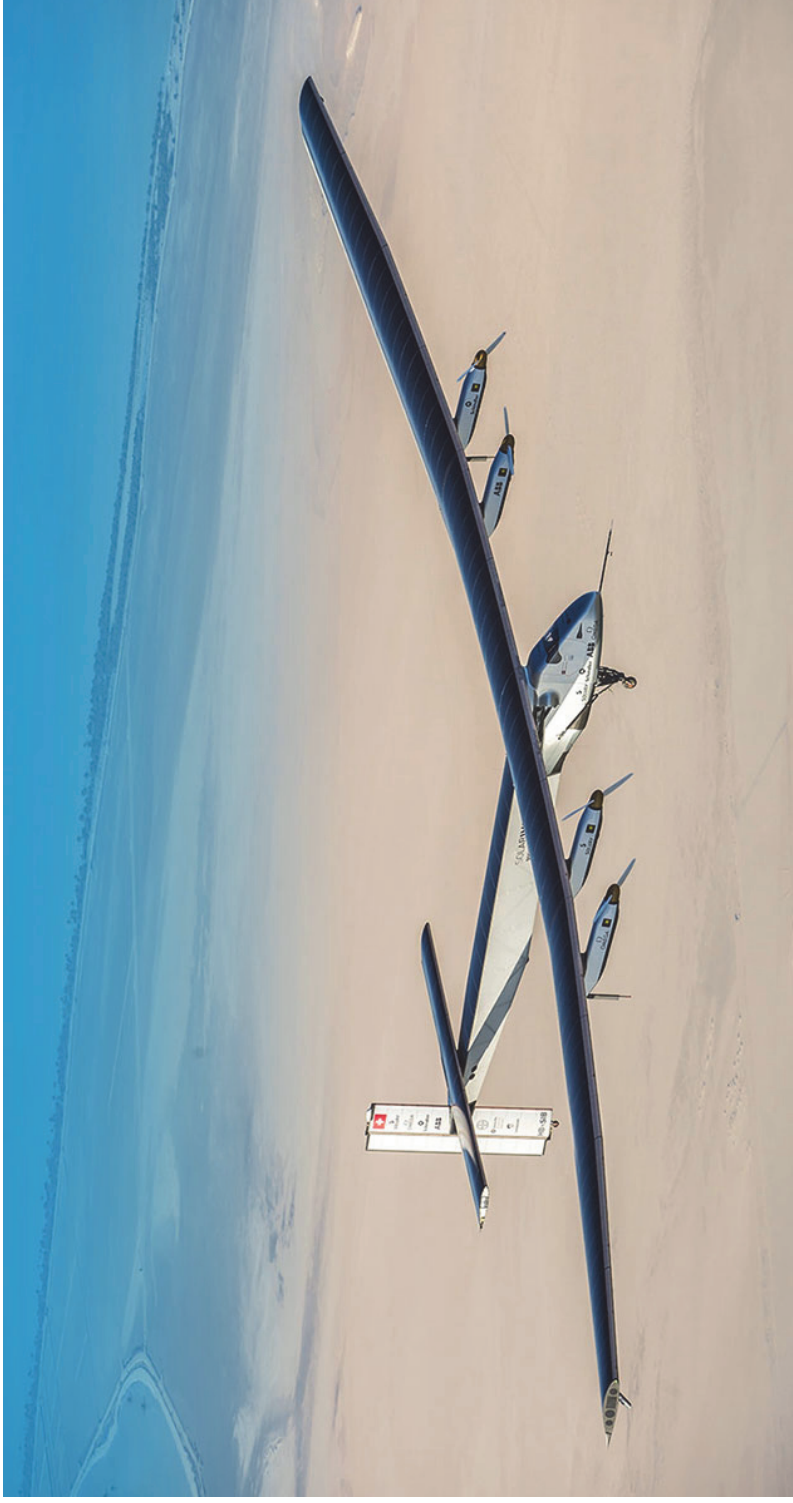


Innovation in Aviation

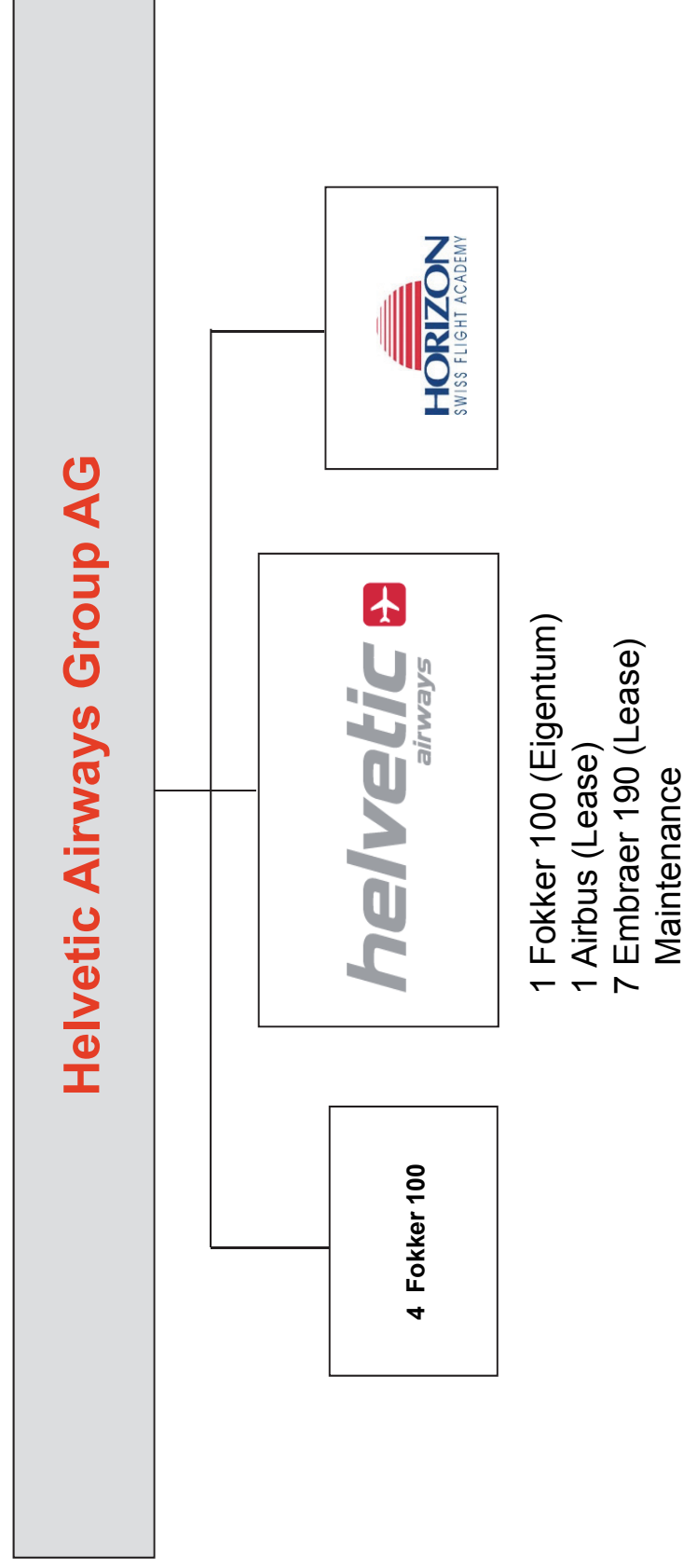


Innovation in Aviation

- who is Helvetic Airways
- what challenges are we faced at
- how innovative are we



Helvetic Airways

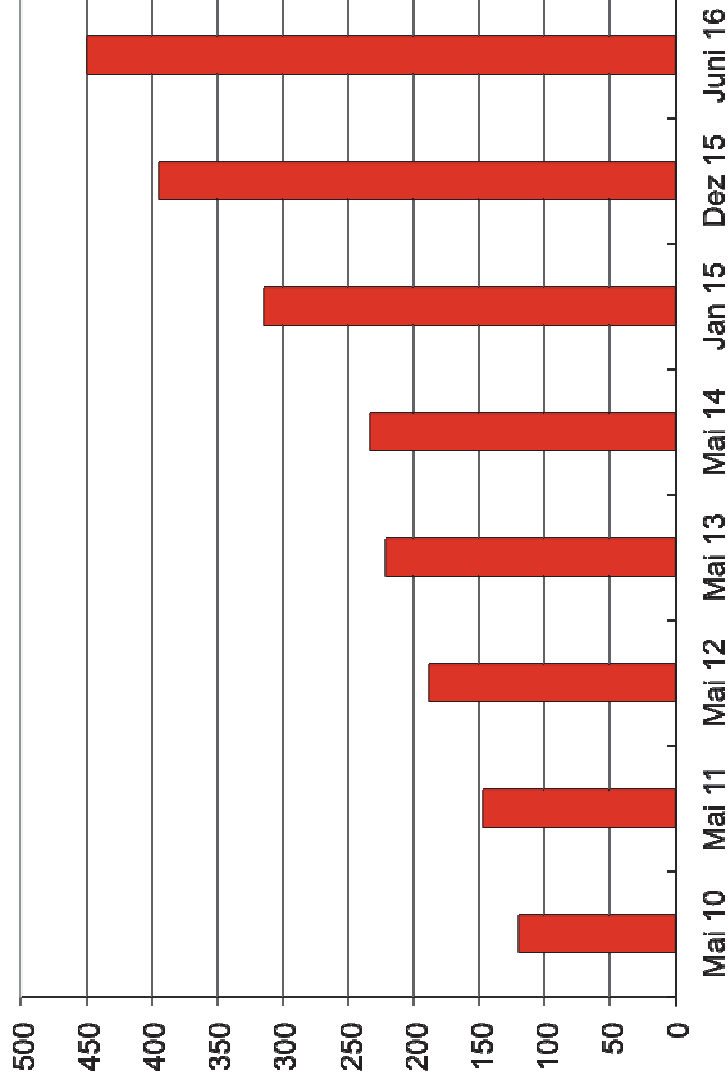


Innovation in Aviation

- ✈ business model
 - ✈ ACMI (wet lease)
 - ✈ scheduled flights
 - ✈ charter flights (TO, VIP, ad hoc)



Innovation in Aviation



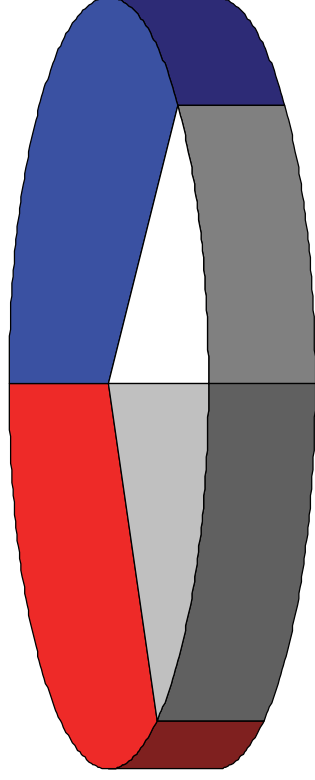
Innovation in Aviation

- ✈ Full time: 376 (VJ: 321)
- ✈ Part time: 71 (VJ: 60)
- ✈ Total: 447 (VJ: 381)



Flight Crew:
141

Cabin Crew:
206



Maintenance:
66

Backoffice:
34

Innovation in Aviation

- ✈ aircraft technology 1980's
- ✈ company bankruptcy in 1996
- ✈ no advancement
- ✈ still 150 aircraft operational



Fokker 100

Innovation in Aviation

- ✈ aircraft technology early 2000's
- ✈ improvements ongoing.



Embraer 190

Innovation in Aviation

✈ aircraft technology 1990's

✈ a lot of improvement ongoing due to high amount of aircraft worldwide.



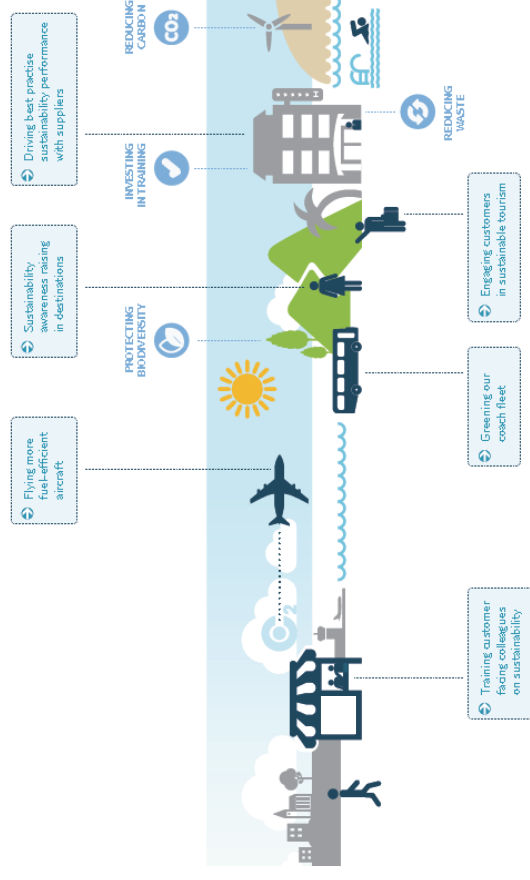
Airbus 319

Innovation in Aviation

→ no big improvements regarding innovation and sustainable mobility

→ why?

- regulation is not yet up to date, but on the right track
- aviation is expensive, very expensive.



Innovation in Aviation

- new technologies
 - lighter aircraft
 - thrifty engines (-15% fuel)
- investment (C-Series: \$50 Mio).



Innovation in Aviation

- introduction of new aircraft type (e.g. EMB190)
- what are the challenges?



Innovation in Aviation

- ✈ training of employees
- ✈ pilots (3 months)
- ✈ cabin crews (1 month)
- ✈ maintenance personnel (1 month)



Innovation in Aviation

- maintenance
- tooling
- spare parts



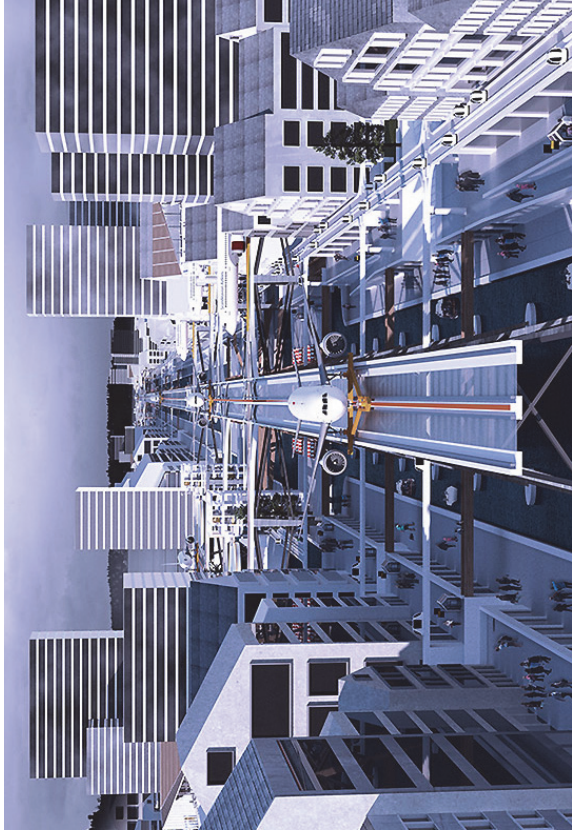
Innovation in Aviation

- administration (regulation requirements, documentation, insurance, etc).



Innovation in Aviation

- ✈ Summary
 - ✈ overall a project of ½ to one year
 - ✈ current operation has to continue
 - ✈ a lot of relation requirements have to be met.



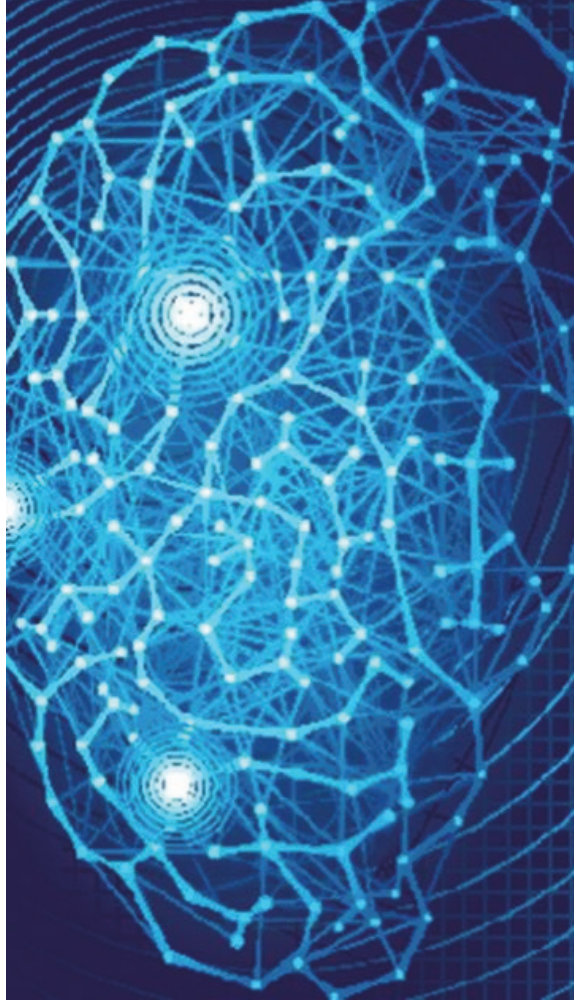
Innovation in Aviation

→ big investment for sustainability.



Innovation in Aviation

- ➔ what do we do?
- ➔ two examples



Innovation in Aviation

- paperless cockpit since 2014
- one of the very first airlines in CH
- saving around 500 printed pages and 100kg fuel per day.



Innovation in Aviation

- ✈ fuel statistics since 2006
 - ✈ fuel uplift acc. to experienced numbers
 - ✈ saving of ~150kg fuel per aircraft per day.



Thank you!

