



ICAO

UNITING AVIATION

E-GAP



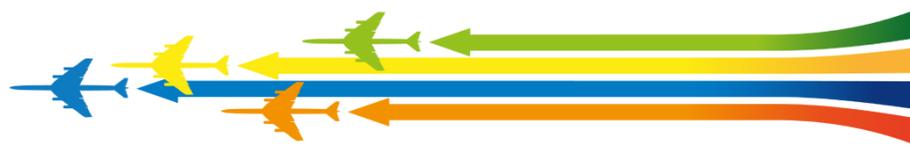
ICAO Global Aviation Partnerships on Emissions Reductions (E-GAP)

Multiplying Environmental Action

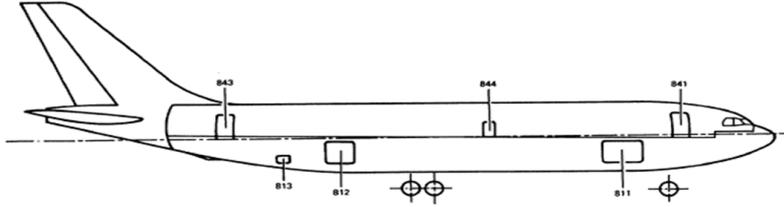
Aircraft EoL - Environmental Management in Aircraft
Decontamination and Protection

Estelle Beaudry, MSc

Aerocycle



Aircraft End-of-Life: Main Processes



Aircraft
Decontamination

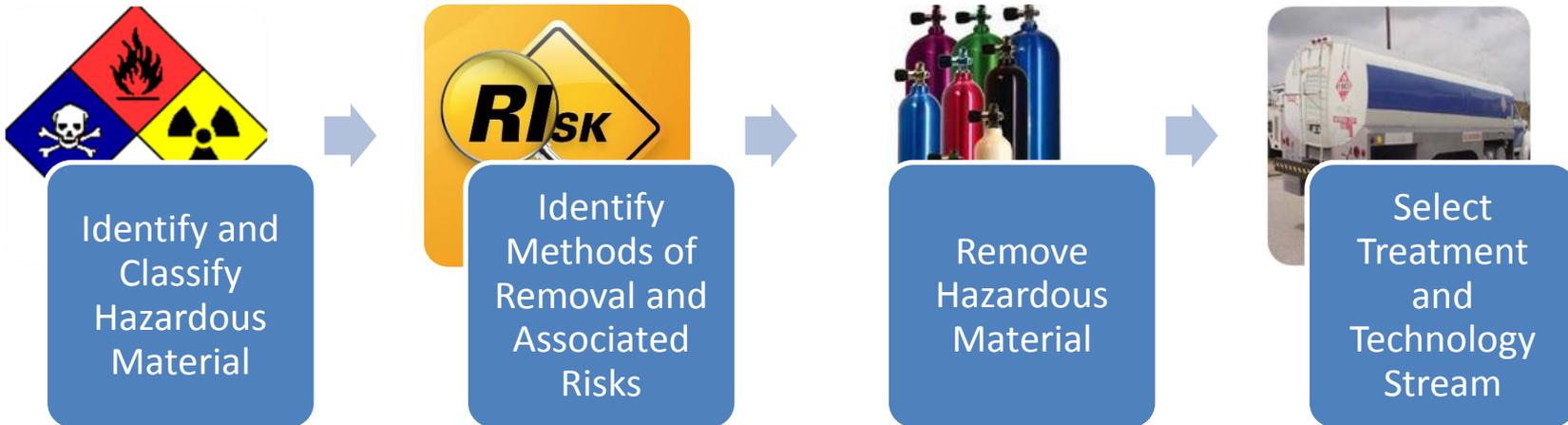
Parts Removal

Aircraft
Dismantling and
Recycling



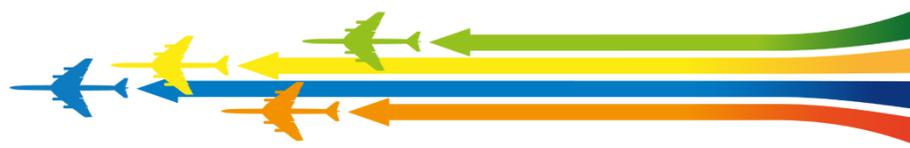


Aircraft Decontamination

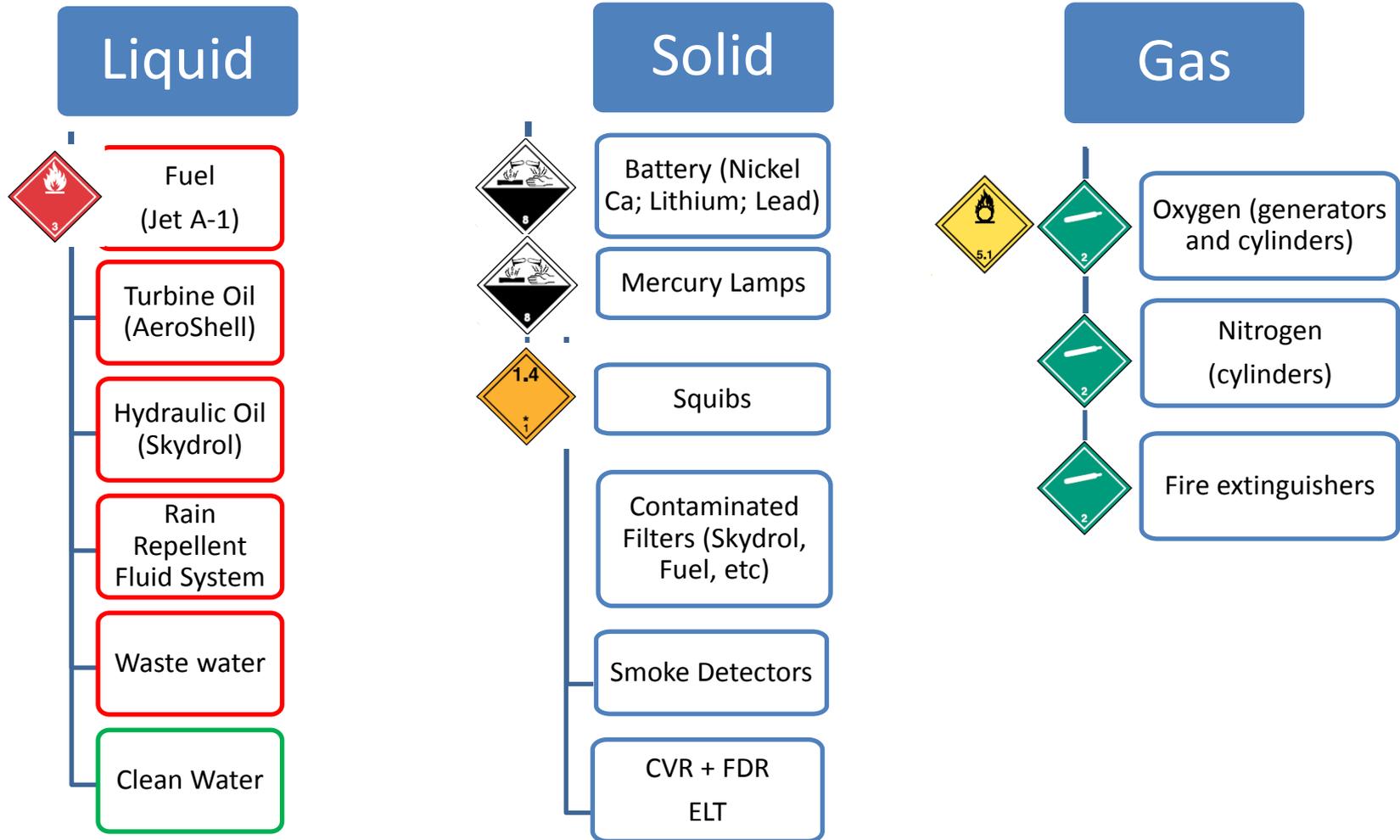


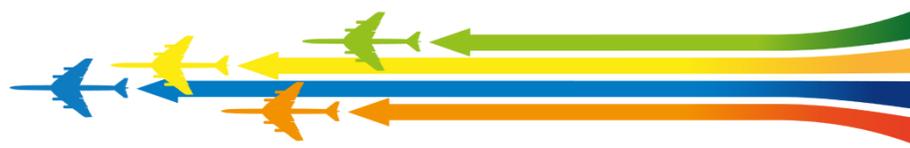
Adapt waste treatment to each HWM type to reduce the overall environmental impact

Safety 1st for Workers



Examples of HWM





What are the risks?

Environmental

- Spills, fires, explosions
- Soil contamination
- Water contamination
- Air contamination



Human

- Accidents during manipulation and disassembly
- Storage (incompatibility)
- Health risks





Controlling HWM

What is easily controlled?

- Most solids



What is not easily controlled?

- Most fluids





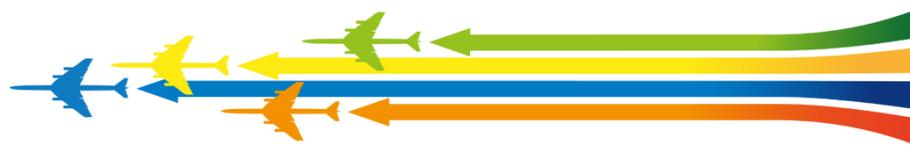
Challenges

Technological

- Identify all HWM and the proper treatment in a cost effective way
- Remove hydraulic fluid
- Develop further knowledge on method of dismantling and treatment of HWM

Economical

- Cost and feasibility
- Traceability in the supply chain



Possible solutions

Technological

- Enhance collaboration with HM manufacturers
- Increase R&D collaboration with research centers and universities

Economical

- Design smart regulations and incentives
- Improve awareness in the industry for aircraft EoL + decontamination
- Look at other sectors
 - Ship dismantling
 - EPR for electronics



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Responsible management of aircraft EoL can only be achieved through collaboration between key stakeholders!

Thank you!





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Aerocycle collaborators for sustainable aviation actions



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 Institut de l'environnement,
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