

Barriers and opportunities for companies in a circular economy

John Cleuren

Senior Policy Expert

Advanced Manufacturing Systems and Biotechnologies Unit

DG Research & Innovation

European Commission

Research and Innovation



Importance of legislation

Pb-free paints & gasoline

Substitution of CFC

Emissions from industry

REACH







Circular economy



Waste as raw material

Complex assemblies

Future question:

Can you recycle all of it?





H2020 Industrial Research programme

Contributions to:

Climate
Energy
Circular Economy

Transforming European
Industry

Contributions to:

Industry 4.0
New products & services

→ capabilities to face societal issues & new legislation





and soon, Horizon Europe...



Innovation Performance

Paris Agreement

Global challenges

