HyTechCycling

Workshop

20th March 2018, Institute IMDEA Energy, Móstoles Madrid

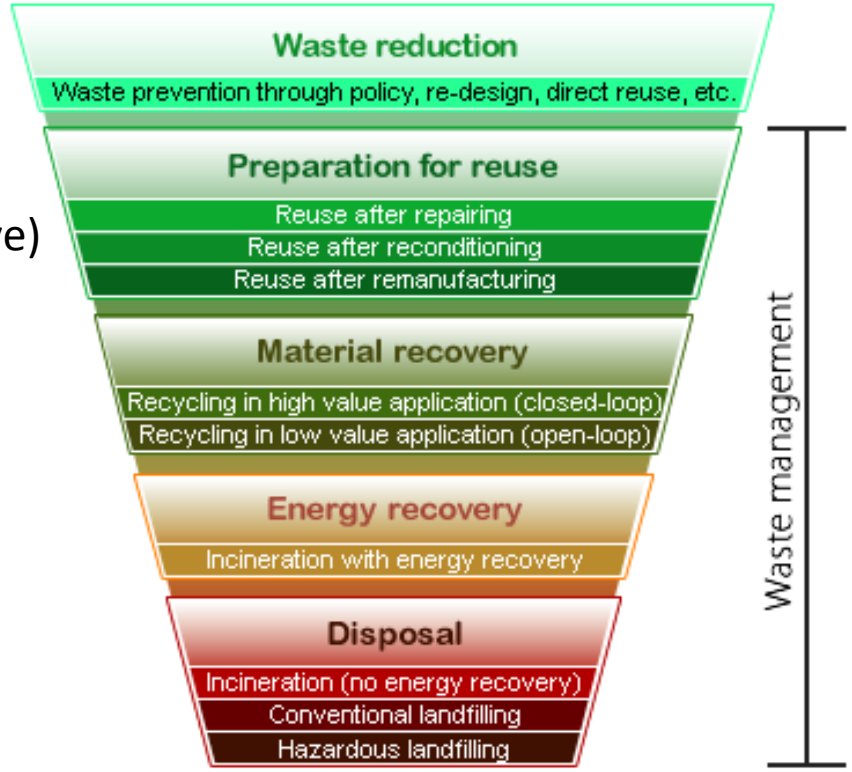
Results from "New strategies for FCH technologies in the phase of recycling and dismantling"

Antonio Valente, *Diego Iribarren, Javier Dufour - (IMDEA Energy - Systems Analysis Unit)*

Introduction

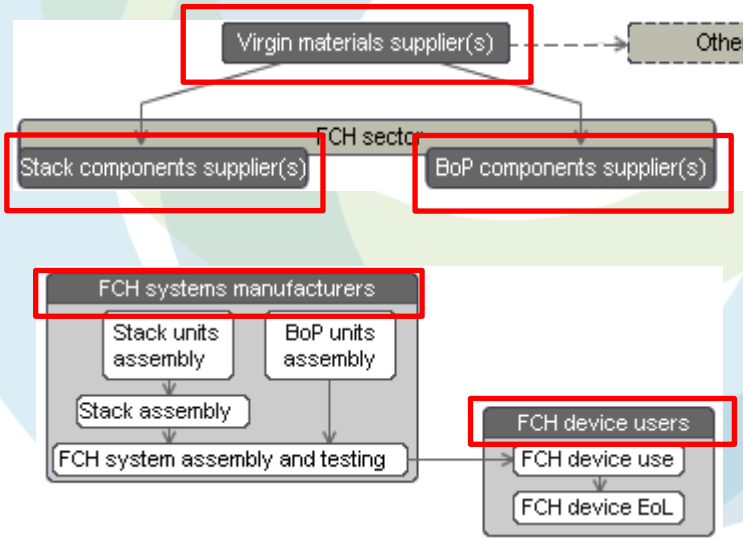
Alignment with the relevant European directives

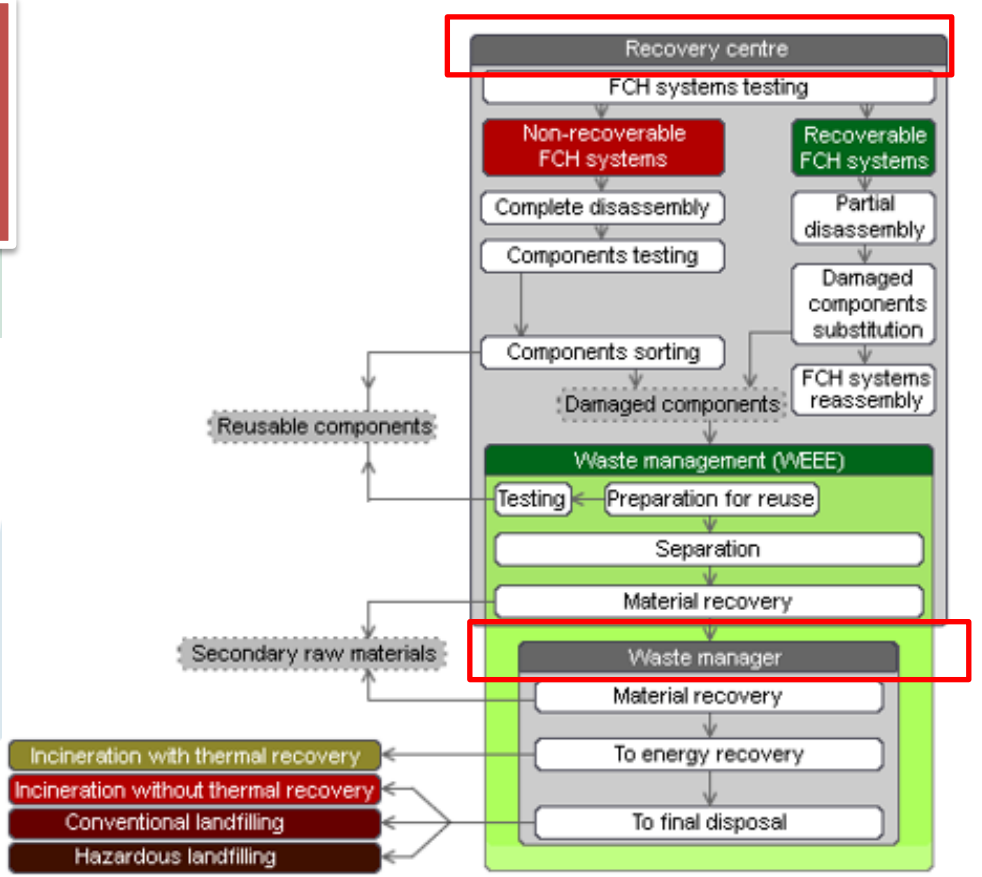
(Eco-design Directive)
(Waste Electrical and Electronic Equipment Directive)
(Waste Framework Directive)



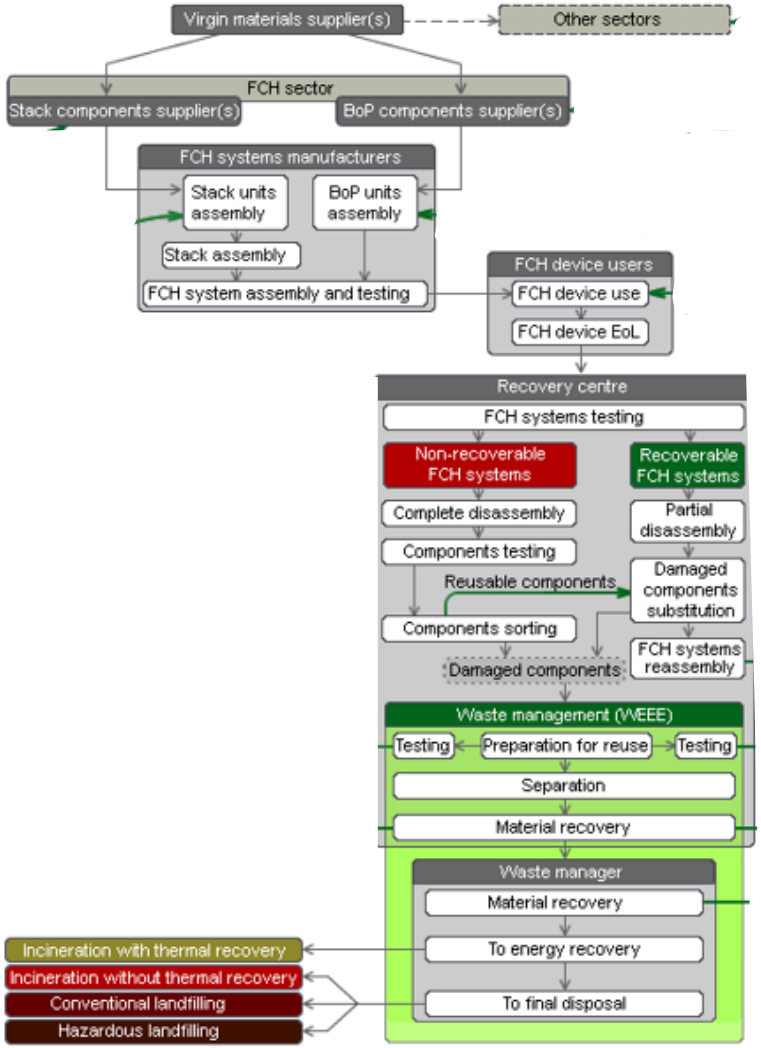
Main actors

- ✓ The main actors involved in the supply chain were identified in order to propose new strategies to optimise the FCH supply chain addressing aspects of logistic, eco-design and manufacturing practices.





Global picture

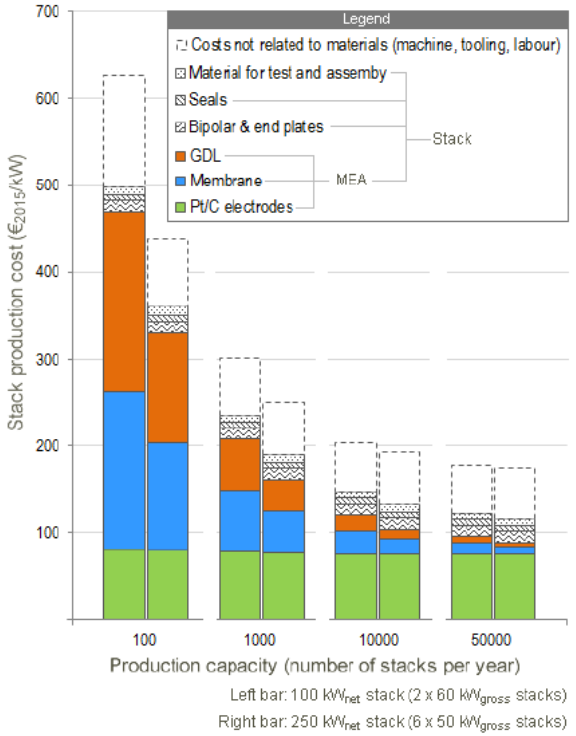


- Definition of **strategies**

Based on the role of the identified actors

Based on ecodesign

- **Material substitution / reduction**
- **Regulatory recommendations**
- **…**



FOUNDATION FOR THE DEVELOPMENT OF NEW HYDROGEN TECHNOLOGIES IN ARAGON

University of Ljubljana

institute IMDEA energy

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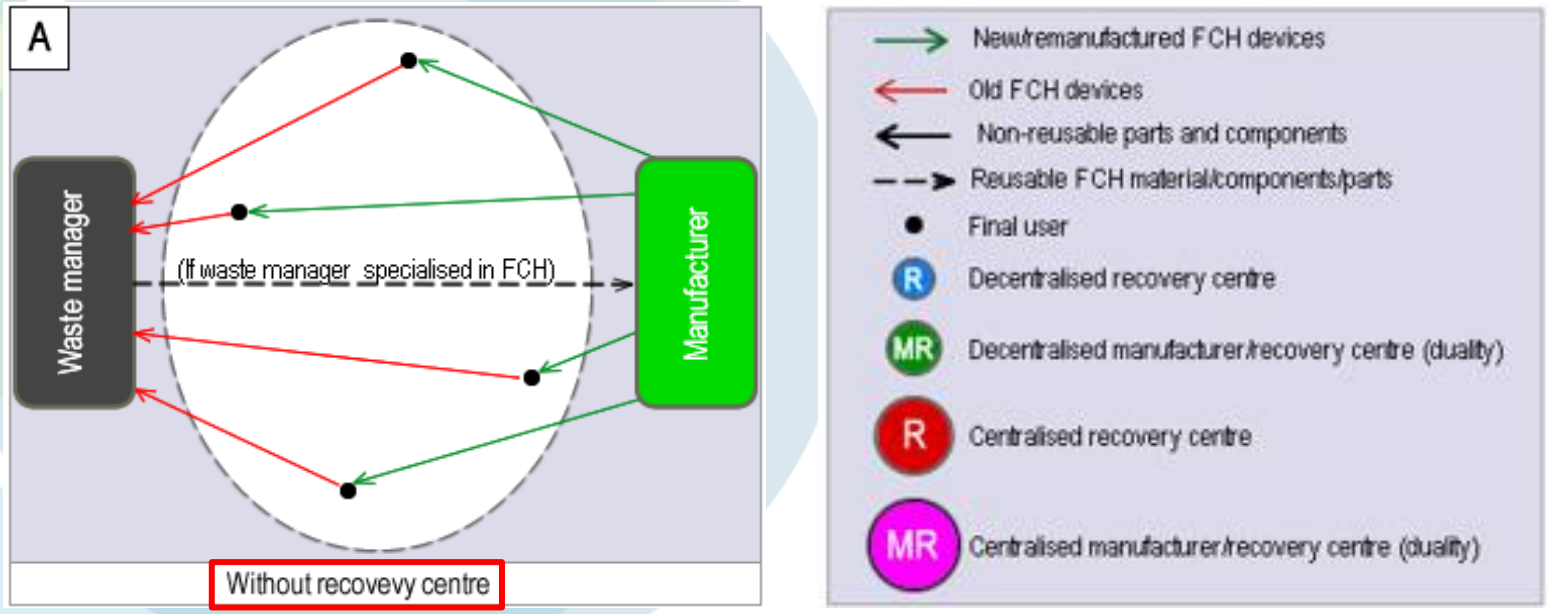
Scenarios

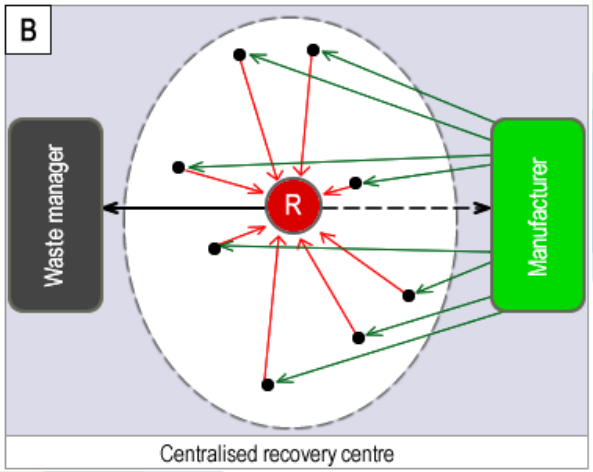
- ✓ The roles and the operations performed by **raw material suppliers**, FCH **component suppliers**, FCH **manufacturers**, FCH **users**, **waste managers** were defined. In particular, the role of a specialised **recovery centre** is emphasised in different scenarios of FCH market deployment.

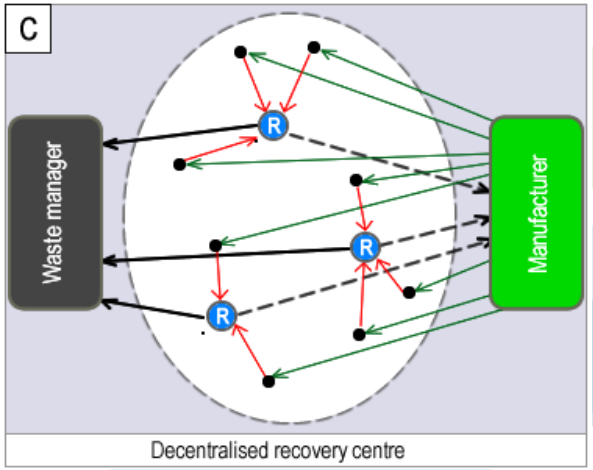
Short-term scenario

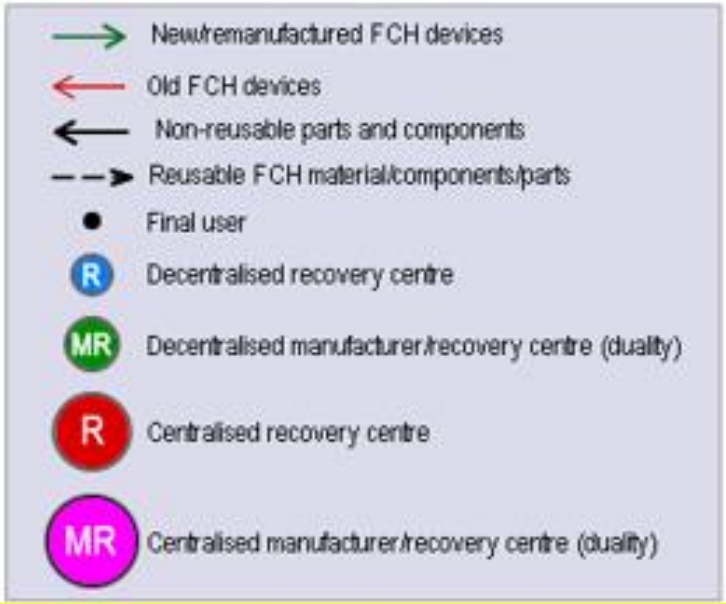


Scenarios

Mid-term scenario







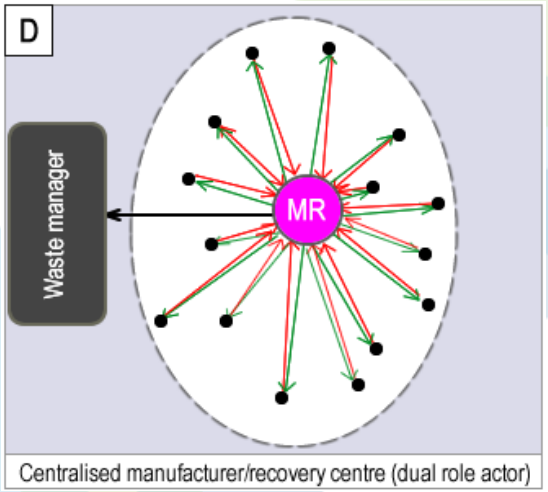
-RCs reduce the need for regular waste management

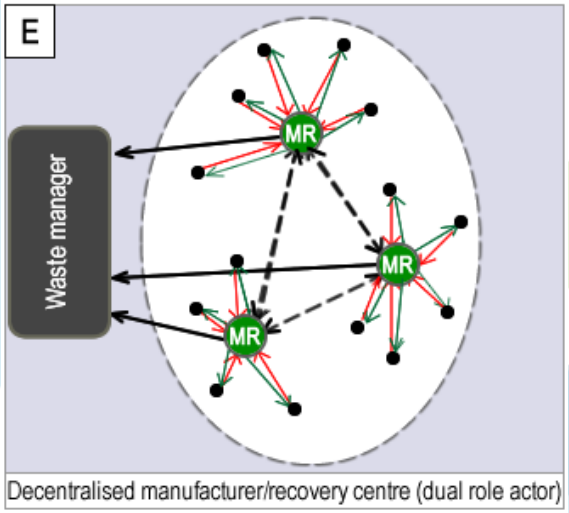
-Promote the reuse of components and materials → reducing costs of FCH products

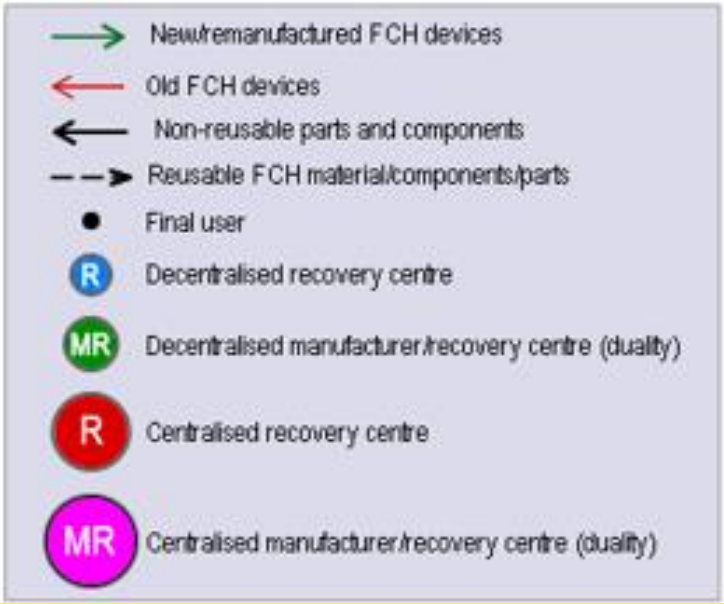
-Novel EoL technologies may start to be used together with existing ones

Scenarios

Long-term scenario







Dual role ->higher control on the life-cycle-> optimisation of the supply chain

Need for logistic optimisation

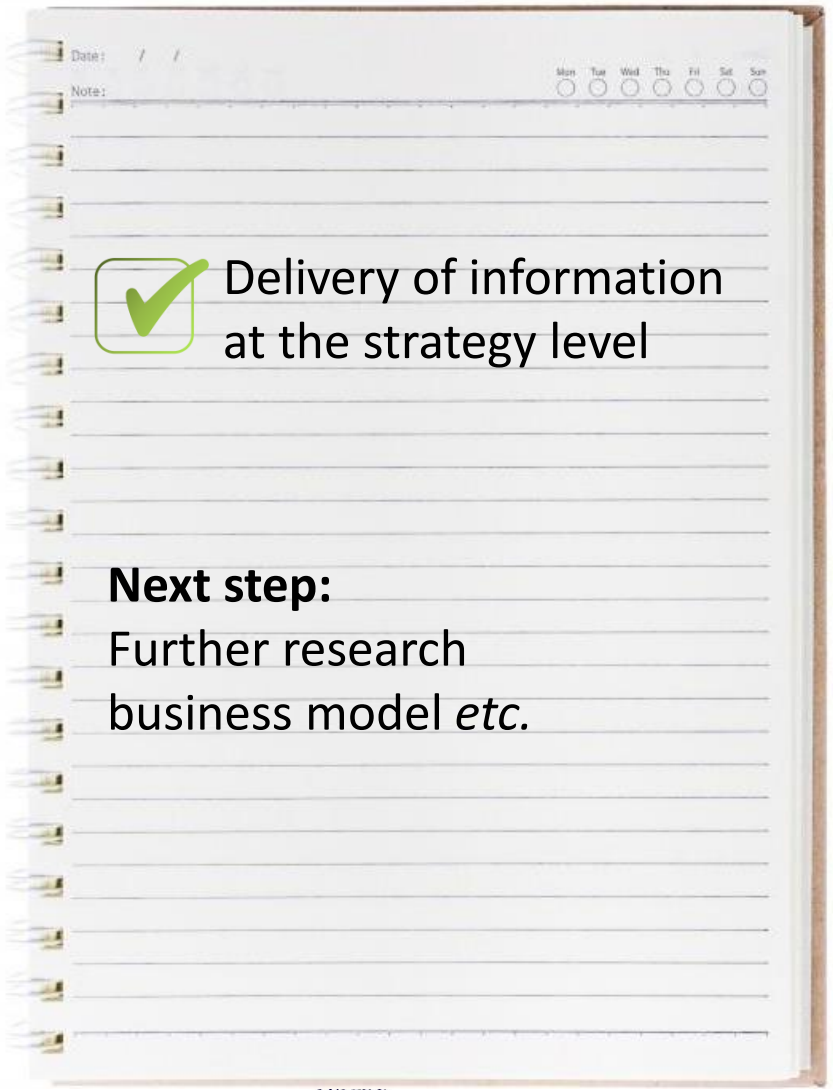
Conclusions

www.hytechcycling.eu/downloads/

(Deliverable 3.2)

New end-of-life strategies for FCH products.

A. Valente, D. Iribarren, J. Dufour, 2018



✓ Delivery of information at the strategy level

Next step:
Further research
business model *etc.*

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