



Conseil Européen de
Remanufacture

Putting the **Economy** into *“Circular Economy”*

Greece, 8-9 April 2019



www.remanouncil.eu

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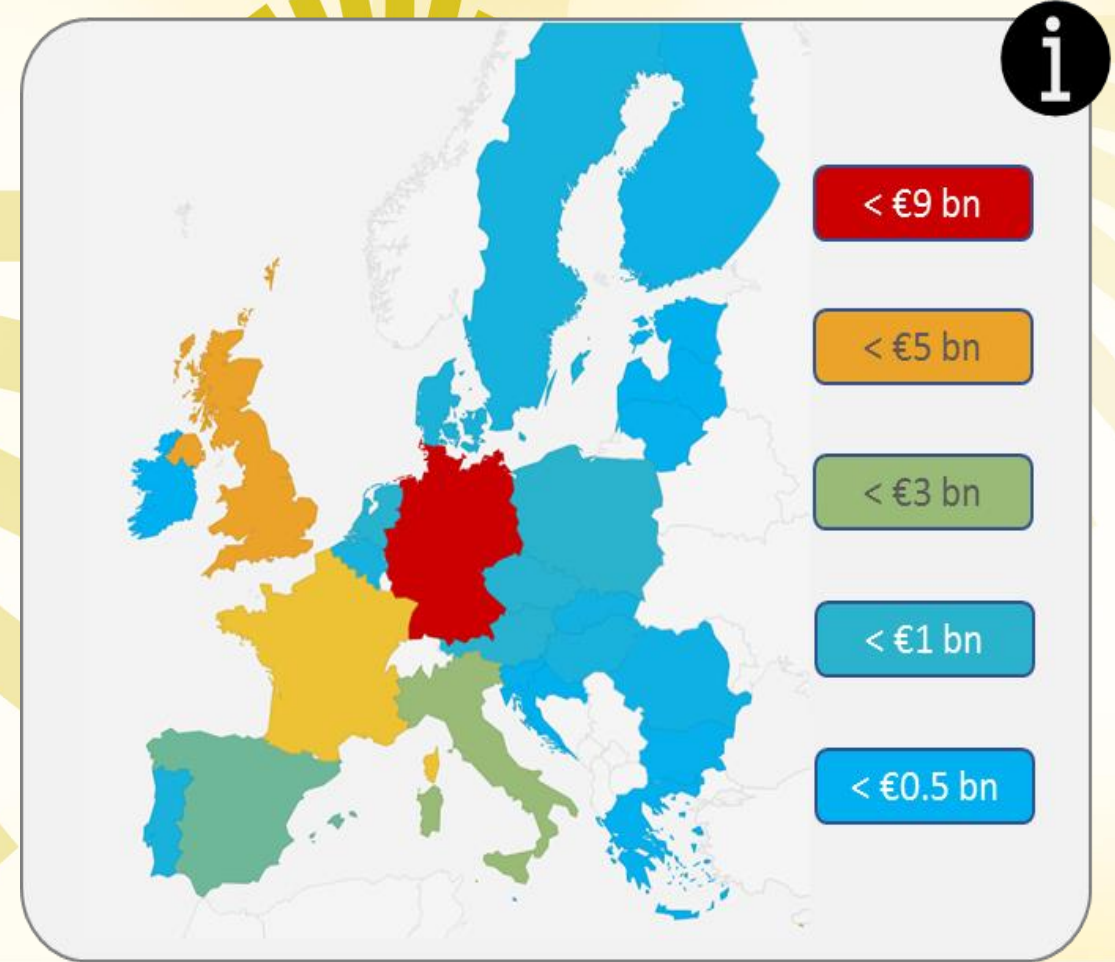
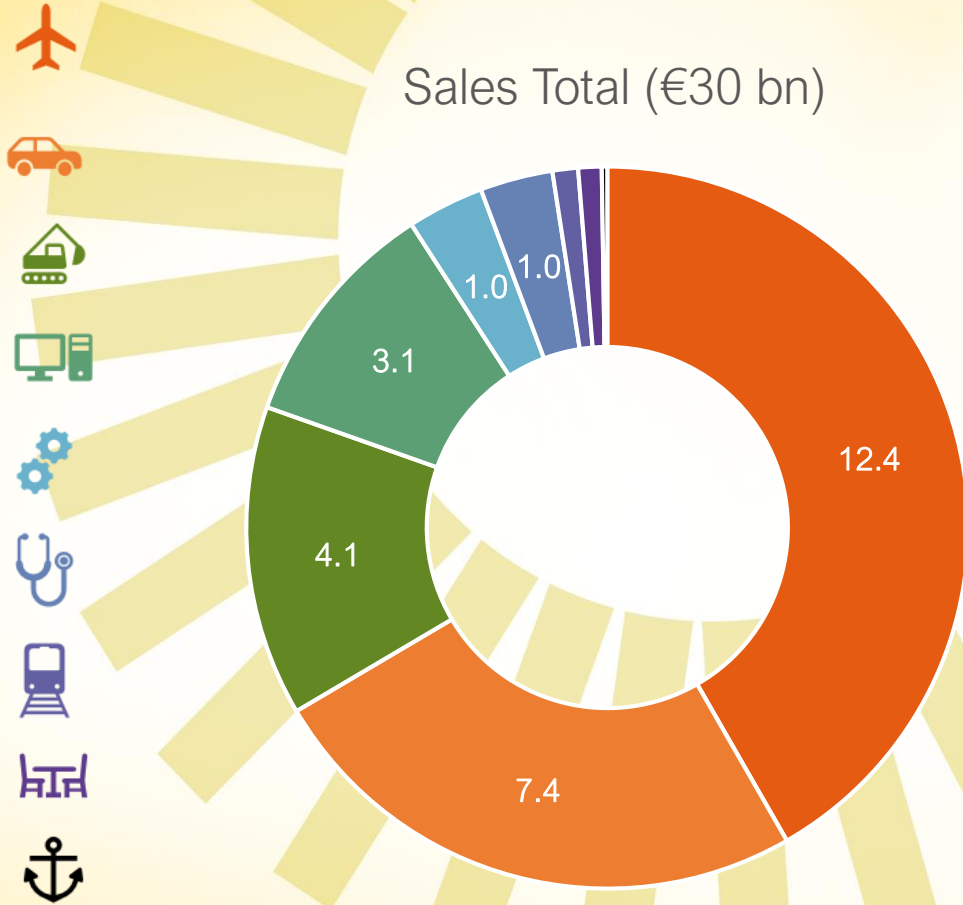


MINISTRY OF
ENVIRONMENT
& ENERGY



**European
Commission**

The Scale of Remanufacturing in Europe

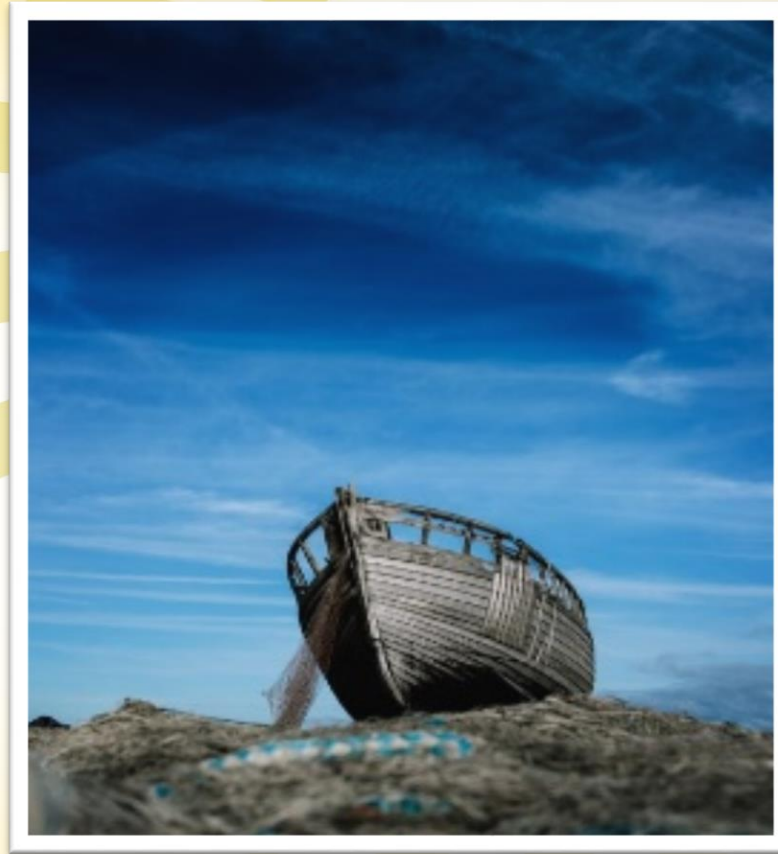


Definition of Remanufacturing - ISO 8887

Source: www.remanufacturing.eu



The Ship of Theseus



Plutarch, who lived c.45 to 120 AD, asked at what point – if ever – did the famous ship of Theseus become a different vessel during the many years of repairs and replacements to its wooden structure?

Source: <https://www.oakdenehollins.com/reports/2018/01/01/report-template-chrrf>

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Multi-Product Example



- supply chain synergy*
- syncreon**
- Opened in Zary 2013 – expanded 2018
 - Growing valorisation requirement due to returned internet sales
 - 5 “Core” Categories for Remanufacture:
 - From Lexmark cartridges to ATM’s
 - High variability (>50%) in weekly “core” returns
 - Unit costs for refurbishment and remanufacture reduced through in-house management and control system
 - c. 500 employees

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Robotics – Transmission Controllers



www.alec-electronics.de/about/

The majority of businesses in remanufacturing are SME's – many are either independent of OEM's or are "approved third party" remanufacturers operating with the support of OEMs

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Digital Platforms – Enabling Remanufacturing

- **Technology platforms** ([IBM Cloud](#))
- **Process platforms** enable industry peers to unlock the value of data with AI, robotics and automation, designed into key processes ([IBM Group Insurance Platform](#))
- **Market platforms** enable trusted exchange between diverse partners on a global scale, by providing secure, transparent and traceable proof of identity, ownership, payments, logistics and recourse ([IBM Food Trust](#))



Erich Clementi

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Developments in China

A stylized map of China in light gray is centered on a yellow background with sunburst patterns. Three purple circles and one black rectangle are overlaid on the map. One circle points to the text '4 National Demonstration Bases for Remanufacturing e.g. – Hejian City'. Another circle points to the text '“High speed” to “High quality”'. A third circle points to a dot labeled 'Hejian City'. A black rectangle is located in the upper left.

4 National
Demonstration
Bases for
Remanufacturing
e.g. – Hejian City

“High speed”
to
“High quality”

Hejian City

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Greek National Circular Economy Strategy Action Plan

Recommendations to Promote the Greek Remanufacturing Sector

1. Under Action Point 1.23 : Commission a survey of the remanufacturing sector - focus on the ports and marine sector.
2. Under Action Point 1.2: Include Remanufactured products in procurement preferences for the circular economy e.g. Office Furniture/Medical Devices/IT/Printer Cartridges
3. Under Action Point 1.10: Adopt a “Product Value Retention” approach – see: <http://www.resourcepanel.org/>
4. Under Action Point 1.5: Permit companies by law to supply a remanufactured replacement should a new product fail during its guarantee period.
5. Under Action Point 1.7: Promote remanufacturing where it prevents the loss of Critical Raw Materials during ferrous and non ferrous recycling.
6. Check out the EU Circular Economy Stakeholder Platform <https://circulareconomy.europa.eu/platform/>
7. Inward Investment Choices – US and European OEM’s - and also China



Investigate and
organise
Remanufacturing in
the Ports and Marine
sector

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