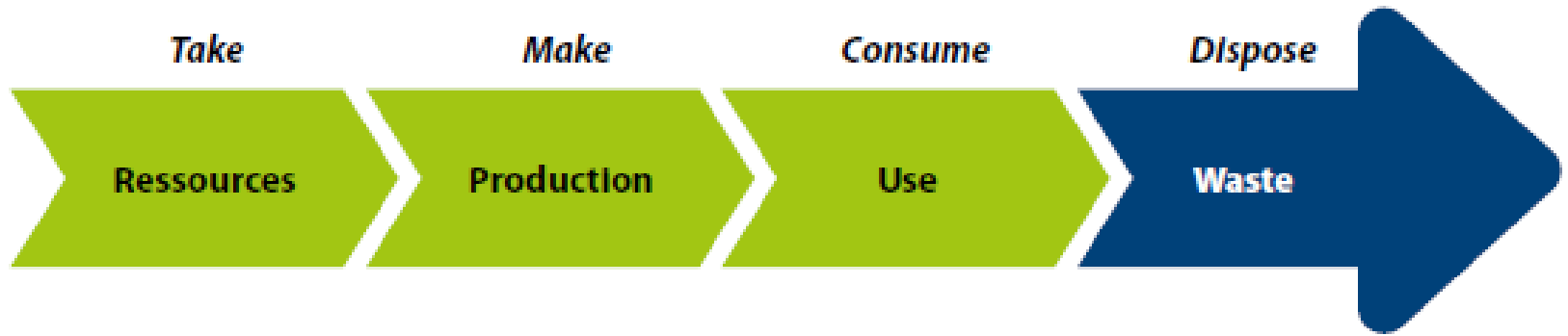
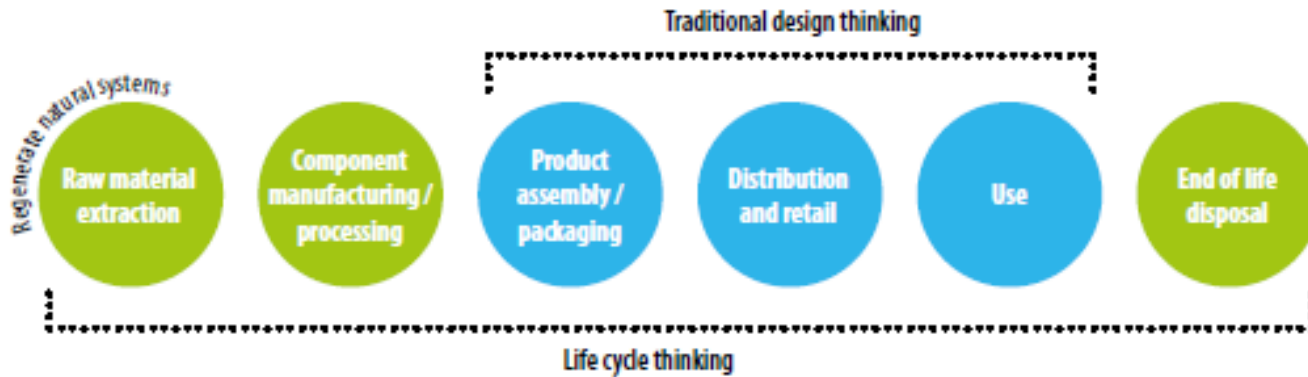


# Moving to a circular economy

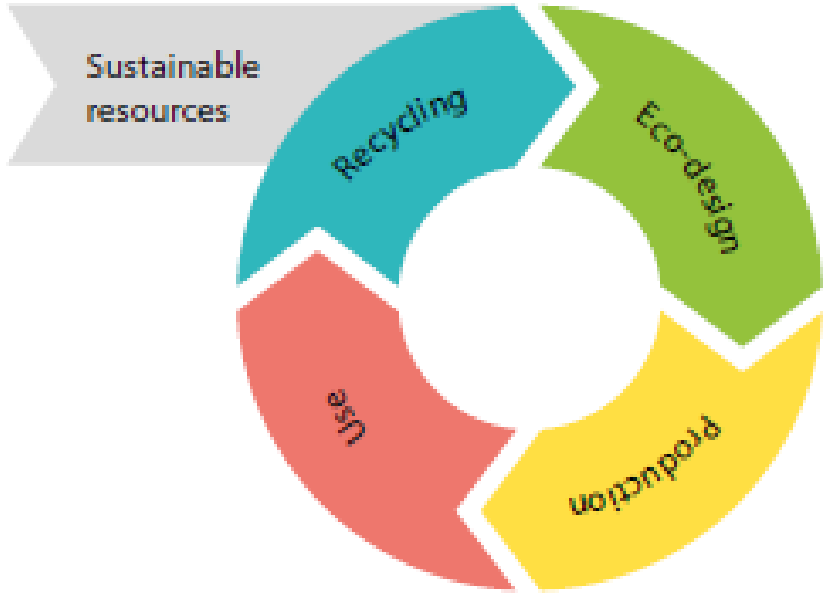
Thomas Binet, *Vertigo Lab*  
[thomasbinet@vertigolab.eu](mailto:thomasbinet@vertigolab.eu)



# Eco-Design



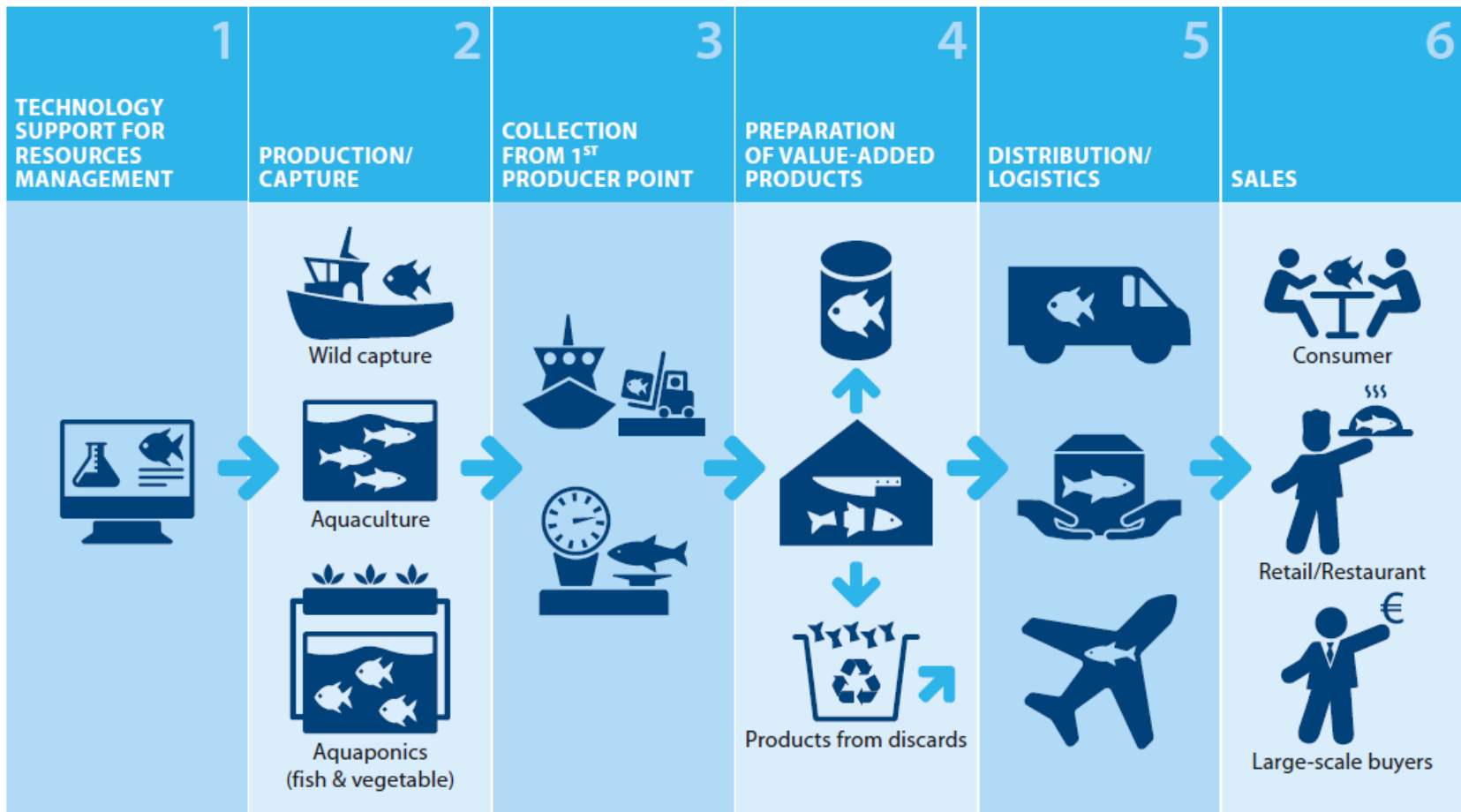
Source: Adapted from ENEC – Pôle Eco-conception 2014.



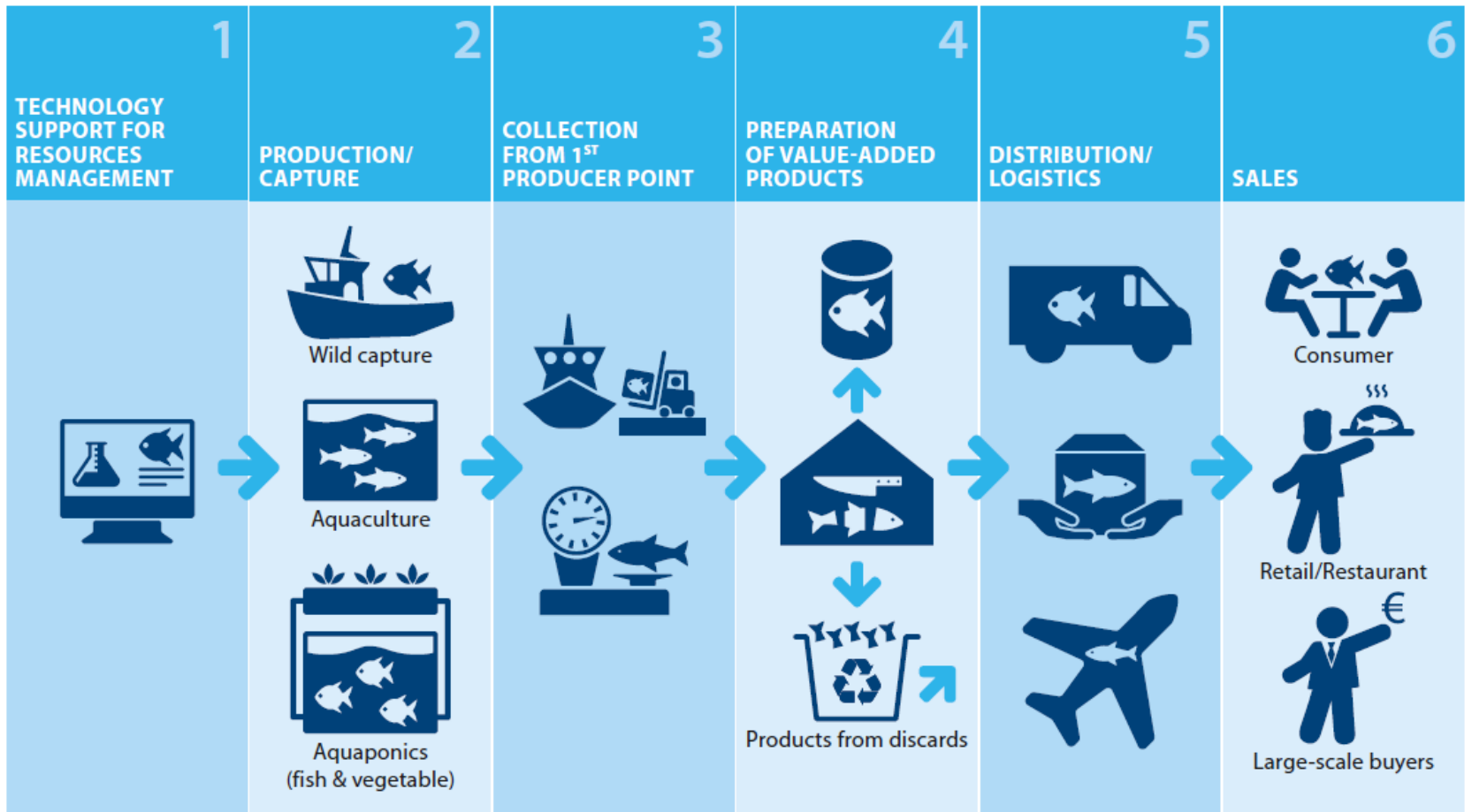
**3Rs:**  
✓ Reduce  
✓ Reuse  
✓ Recycle



# The fisheries supply chain



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-Discarded fish  
 -Undervalued fish  
 -Use of vegetables from aquaponics  
 -Bio-fuels

-Waste water  
 -Unsold fish

-Bones, skins, shells, guts,...  
 -Energy surplus

-Shared transport  
 -Transport boxes, wrapping

-Organic waste  
 -Shells  
 -Waste from restaurants, retail...

# FLAG projects



Fish burgers from by-catch



[Fish waste for fishmeal in Spain](#)

[Mussel shells for jewelry, tiles and watch cases in Sardinia through 3D printing](#)

[Pilado Crab for Bio-medicine in Portugal](#)

[Aquaponics to produce fish and tomatoes in Sweden \(LEADER\)](#)



# Thank you !

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*Environmental economist,  
director of Vertigo Lab*

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