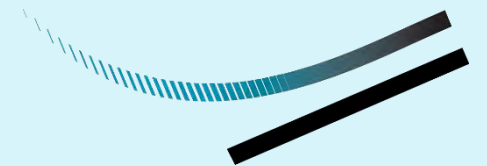


Remanufacturing: a core strategy to growing a circular economy

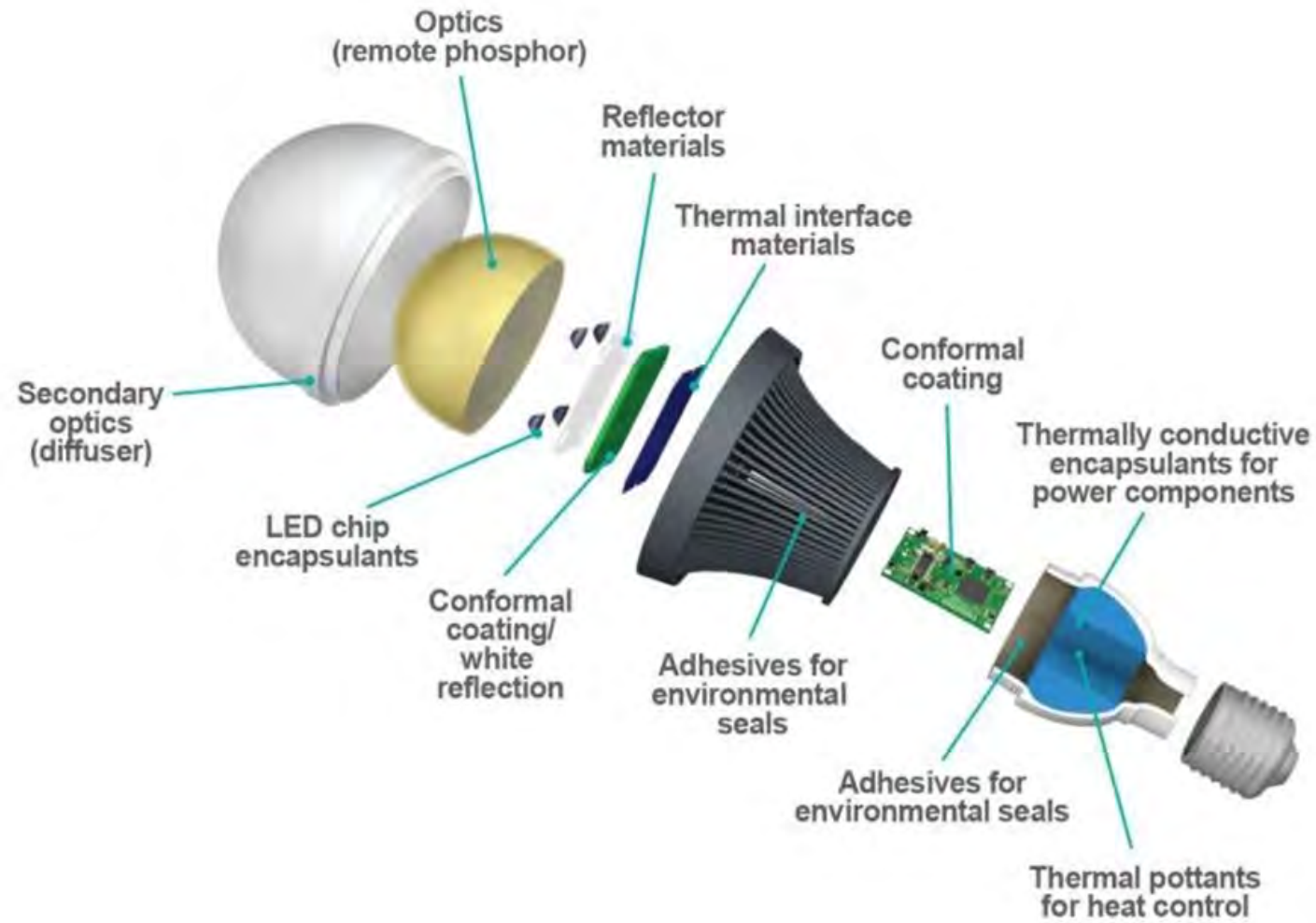
Tessa Vlaanderen, Circular Economy Lead

Oct 20, 2022

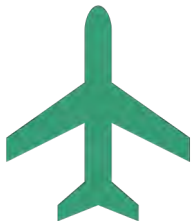


DILLON
CONSULTING





What do we remanufacture?



Aerospace



Automotive



Heavy-Duty and
Off Road (HDOR)



Marine



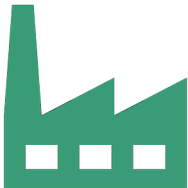
Rail



Household
Appliances



Medical Devices



Industrial/Business
Equipment

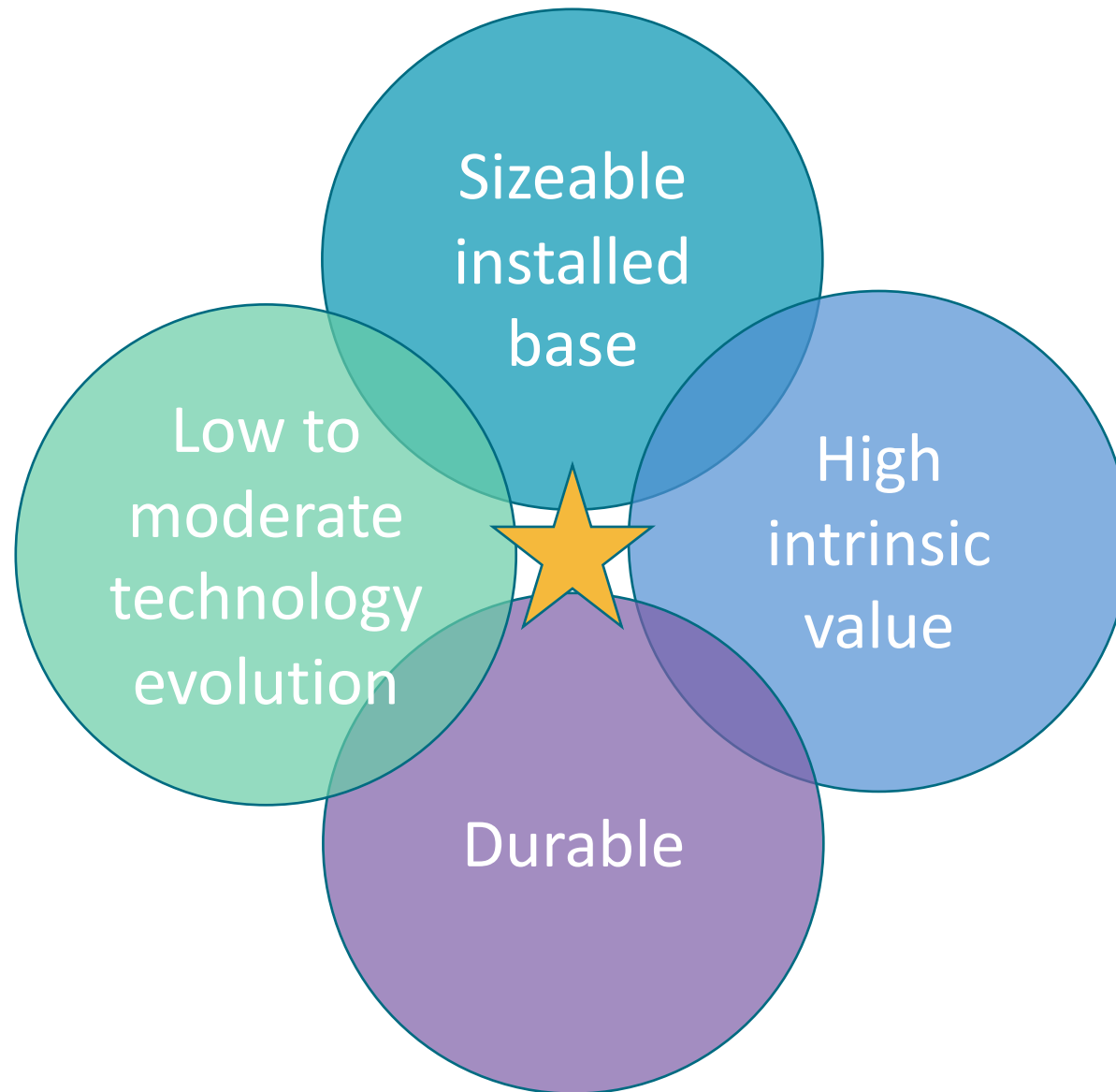


Furniture

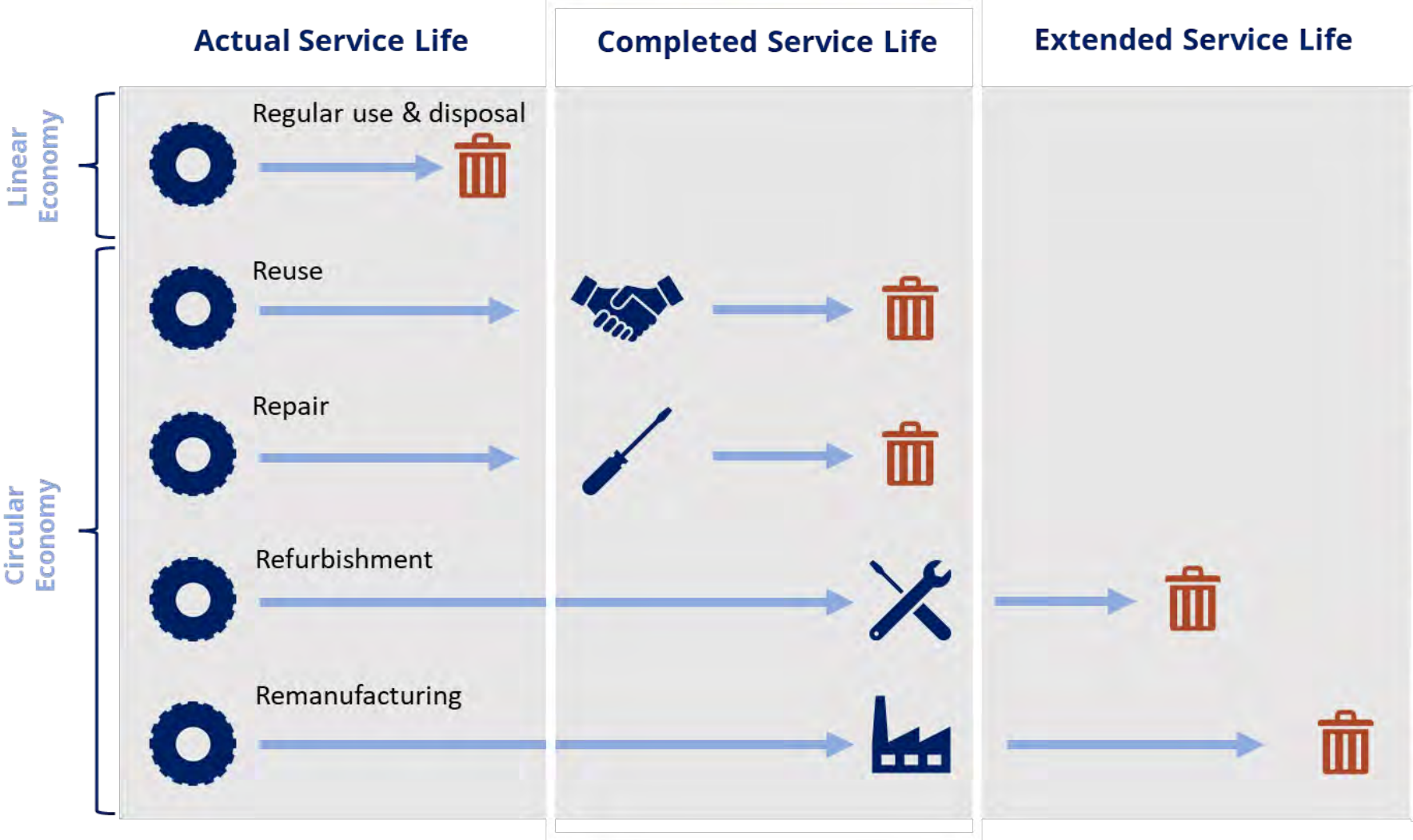


Electronics

Remanufacturing's sweet spot

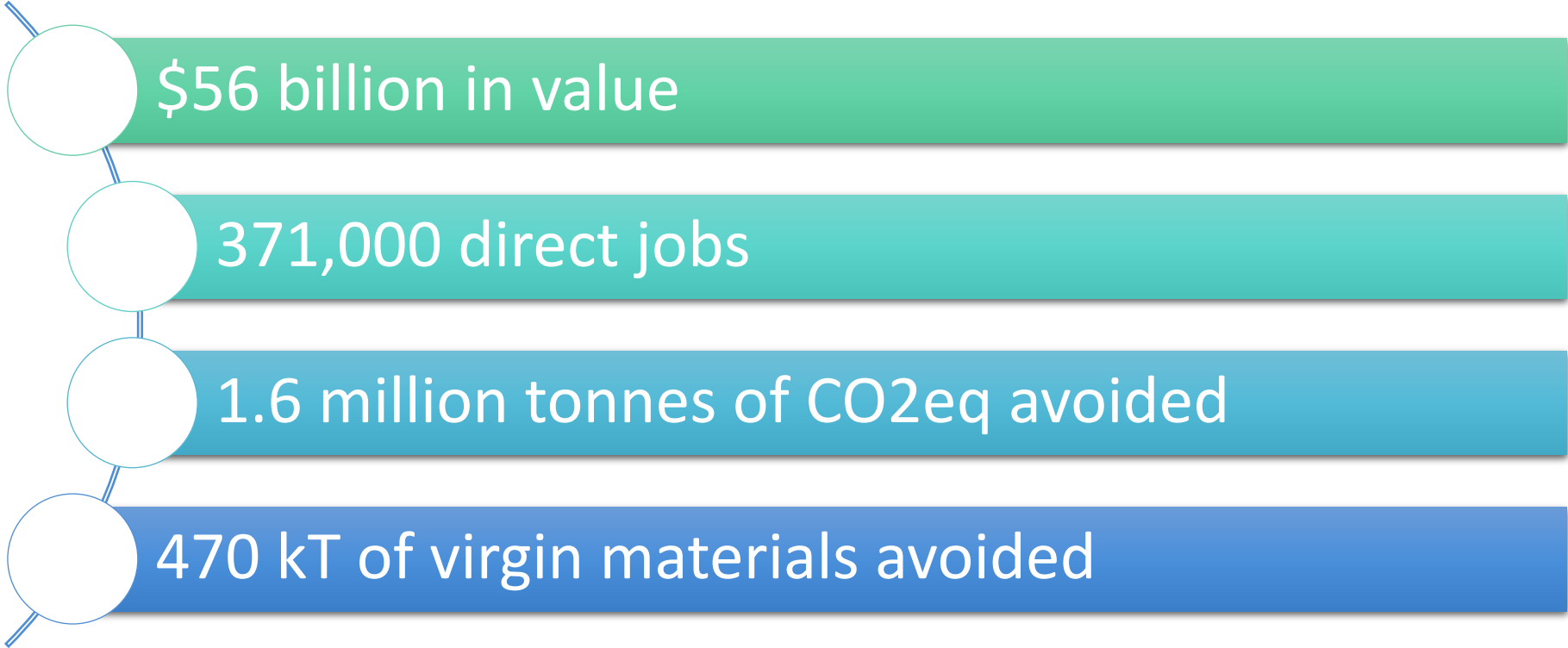


Product Value-Retention Processes (VRPs)








Adapted from work by Environment and Climate Change Canada

VRP impact in Canada in 2019



Policy Strategies

Strategic Thrust		Scope	Example sectors
	Grow	The sector, or a product/VRP service within it, is not at saturation, and there is room for growth .	electronics, home appliances, automotive, office furniture
	Sustain	The sector is unlikely to grow significantly but is beneficial .	aerospace
	Transform	The sector requires a radical change to realize beneficial environmental and economic impacts.	home appliances, electronics and other consumer goods.
	Defend	The sector may be threatened , particularly by foreign competition	tires, home appliances
	Leverage	The sector has capabilities which are leading edge and could either be applied in less mature sectors or new sectors such as renewable energy equipment.	aerospace, automotive

Innovations

- Design for remanufacturing
- System optimization/Internet of Things
- Automation and robotics
- Condition assessments/diagnostics (AI)
- Cleaning technologies
- Material restoration/additive manufacturing

