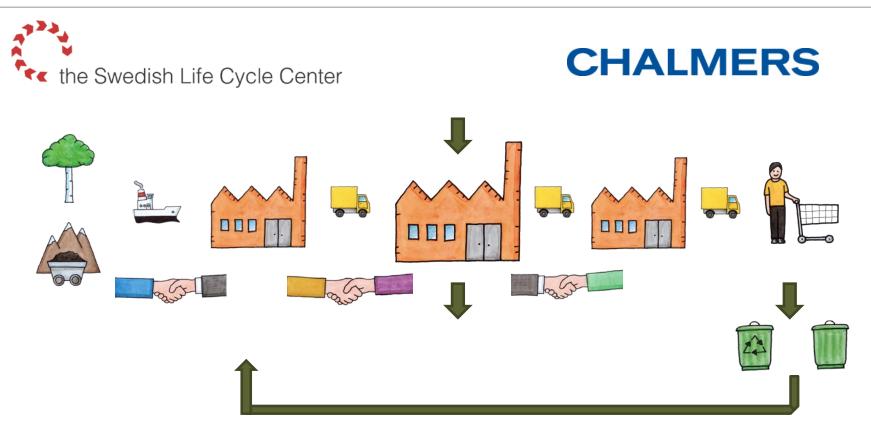
#### Making sustainable innovation happen - Life cycle thinking

### Planet **Possible**<sup>™</sup>



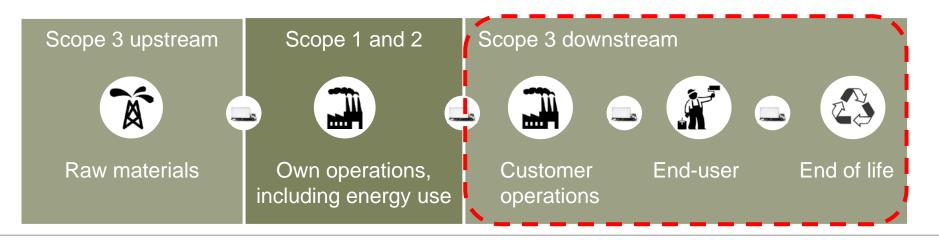
#### Life cycle perspective in innovation



#### **Eco-Premium Solutions**

Compared to the **mainstream** product on the market, an **Eco-Premium Solution**:

- Provides the same or better functionality for the customer application
- Is significantly more sustainable in at least one of seven criteria, when assessed along the full value chain (and not worse in any other)





#### **Eco Premium Solutions matrix**

		Energy efficiency	Use of natural resources/ raw materials	Emissions and waste	Toxicity & ecotoxicity	Risk (e.g. for accidents)	Land use, if applicable	Health / Wellbeing
	Raw materials		$\checkmark$					
	Processing							
	Packaging/ distribution							
I	Customer				X			
	Use/ lifetime							
	End of life							
1	Total							





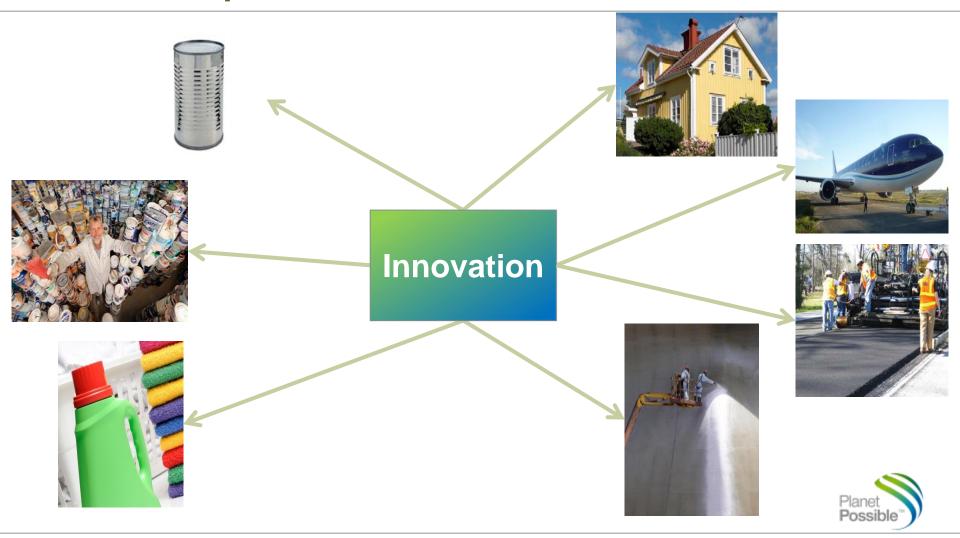
#### **Stage Gate<sup>®</sup> process**

	Gate 1 Pre-project	Gate 2 Project	Gate 3 Process & scale up	Gate 4 Pre- launch	Gate 5 Launch	Gate 6 Regular sales
Focus criterias	Eco- efficiency criteria for R&D "positive"	Draft Eco Premium evaluation	Start EEA	Draft EEA (ESR)	EEA done	EPS (EPD) Eco footprint





# Driving innovation & differentiating us versus competitors





#### **New business model**



# → Intersleek<sub>®</sub>

- Reduced fuel consumption by 9% average!
- Longer time between repaints!
- No biocides!









#### **Carbon credits**

## Gold Standard<sup>®</sup> Intersleek<sub>®</sub> Carbon Credits

Improving the sustainability of international shipping



#### 126,785 verified carbon credits represents avoidance of emitting







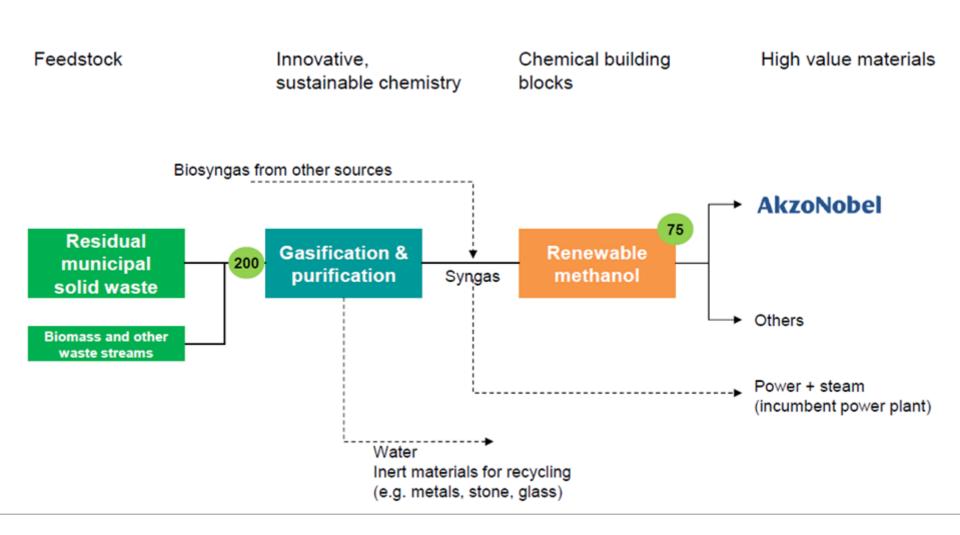


TONNES OF BLACK CARBON





#### **Circular chemicals: Methanol from waste**



## Circular economy – how do we make it happen?

It's about innovation! It's about cooperation! It's about changing our habits!

