



# Sustainability Use Cases Supported by Low-carbon Semiconductor Manufacturing

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Consumer



Healthcare



Logistics & Smart  
Manufacturing



Energy



Transportation

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# \$12.5 Trillion

Total Internet of Things  
Market Value by 2030



# Net Zero: the global challenge

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**Net Zero**  
emissions by 2050  
required to achieve climate goals

**20% emissions**  
reduction through  
digital technologies  
helping accelerate transformation  
across multiple sectors





# The role and impact of semiconductors in digital transformation



Cloud



Edge



Item



## Driving down emissions of the food industry

25-30%  
Greenhouse  
gas emissions

attributable to food production,  
processing and packaging





## Tackling global food waste

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**33%**  
Food lost  
or wasted  
of total global production





## Enabling smarter packaging at scale

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189kg  
Packaging waste  
per person  
in 2021 in the EU alone





## Slashing the impact of the hospitality sector

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99.75%  
of coffee cups  
go to landfill in the UK







# Addressing the footprint of the fashion industry

92M tonnes  
of textile waste

Produced globally each year





# A confluence of global challenges confront the semiconductor industry



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**Broken supply  
chains**



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**Geopolitical  
tension**



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**Skill  
shortages**



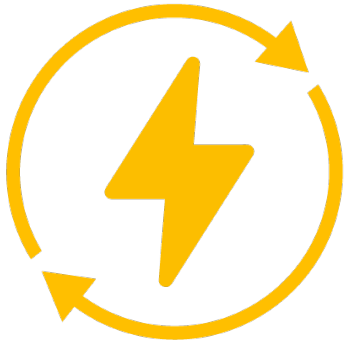
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**Sustainability**





# More sustainable semiconductor fabrication



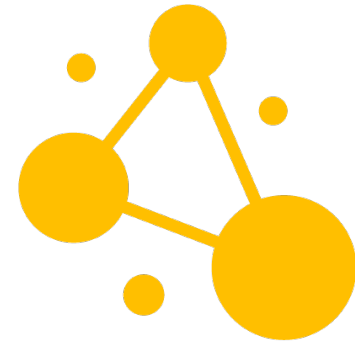
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Less energy



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Less water



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No PFAS



### Semiconductors Fab and Packaging



- Efficiently optimised process
- Single site manufacturing
- Concentrated footprint



# The mission

Sustainable innovation that underpins digital transformation solutions for Net Zero



# Thank you

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