

System Generation for Waste Collection

EuroTeQ Waste Challenge

Abdelgafar Ismail (Infineon Technologies AG) 27th September 2022







Infineon is a globally leading semiconductor player





top 10 semiconductor company

~50,280 employees¹

leading player

in automotive, power management energy efficient technologies and the IoT

9%+ I 19% I 13% target operating model²

¹ as of 30 September 2021

² over the cycle: 9%+ revenue growth; 19% Segment Result Margin; investment-to-sales ratio of 13%; targets to be approached as Cypress integration progresses

Megatrends, growth areas and growth drivers open up opportunities for semiconductor companies



Megatrends





Climate change and scarce resources



Digital transformation

Electrification, Digitalization

Growth areas

Energy efficiency

Mobility

Security

IoT and big data

Growth drivers

- Power generation from renewable energy sources
- Energy transmission and distribution
- Energy storage
- Energy usage

- Electromobility
- Charging infrastructure for electromobility
- Automated driving
- Passenger and freight transport
- Infotainment

- Mobile devices
- Authentication for the IoT
- Smart cards
- Industrial applications
- Connected vehicles
- Integrity of devices

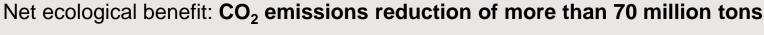
- Human-machine-interaction
- Consumer IoT
- Industrial IoT
- Data and communication infrastructure
- Edge computing



We contribute a net CO₂ reduction of more than 70 million tons









Infineon is excellent in resource efficiency

We are committed to CO₂ neutrality by 2030

Our CO₂-saving applications are high-growth, we are part of the solution!

The ~1:33 ratio is expected to further improve in the coming years



Note: Compared to the last fiscal year, the increase in CO₂ burden can be mainly explained by the inclusion of the data from Cypress



Infineon is excellent in resource efficiency and committed to CO₂ neutrality – sustainability is in our DNA



Infineon ranks among the 10 percent most sustainable companies in the world1

In CY20, we used resources in our manufacturing processes much more efficiently than the global average of the semiconductor industry:





3



Infineon's CO₂ target² by 2025 and 2030

Net CO₂ emissions in million tons of CO₂ equivalents²



Avoiding direct emissions and further reducing energy consumption

Purchasing green electricity with guarantees of origin

Compensate the smallest part by certificates that combine development support and CO_2 abatement

Source: Infineon Sustainability Report 2021

¹ Based on the results of *The Sustainability Yearbook 2022* by S&P Global in cooperation with RobecoSam | 2 Related to Scope 1 and 2 emissions

Innovative waste collection strategies as part of overall waste management enabled by semiconductors





Key Challenge Questions





What is the current status on municipal waste collection?



How can the municipal waste collection be established, enabled, strengthen with technologies using semiconductors?



What are the strengths, weaknesses, opportunities, and threats of the waste collection system you suggested and how can the risks be managed?



What are the environmental, social, economic, and governmental implications of your waste collection?



The proposed waste collection system will bring our society...



UN Sustainable Development Goals (SDGs)

- GOAL 3: Good Health and Well-being
- GOAL 6: Clean Water and Sanitation
- GOAL 7: Affordable and Clean Energy
- GOAL 9: Industry, Innovation and Infrastructure
- GOAL 11: Sustainable Cities and Communities
- GOAL 12: Responsible Consumption and Production
- GOAL 13: Climate Action
- GOAL 14: Life Below Water
- GOAL 15: Life On Land





Part of your life. Part of tomorrow.