



MANIFEST

Responsible Artificial Intelligence (AI) at Infineon

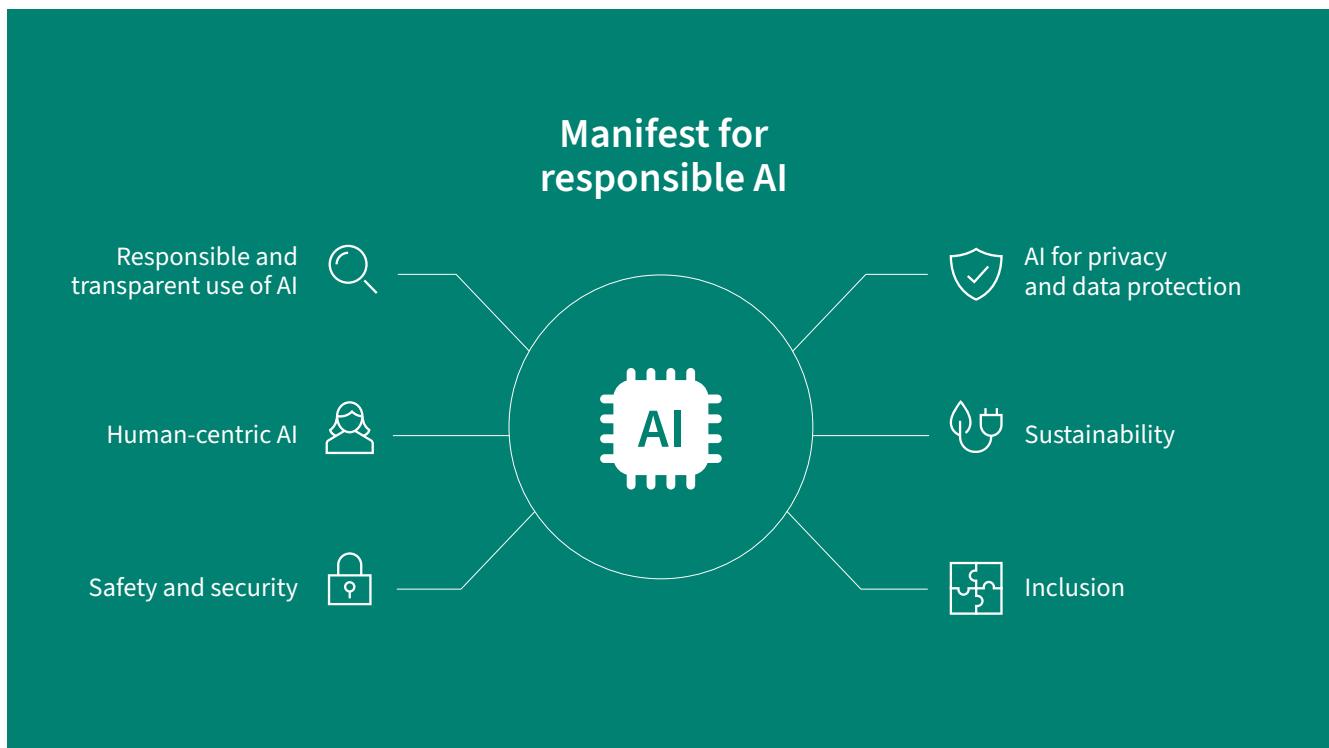
We make AI easier, safer and greener at the edge,
and empower human autonomy.

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1 Responsible AI – what we aim at

Infineon's mission – to make life easier, safer and greener – is a perfect match for the challenges that AI poses: AI indeed can make our lives easier, safer and greener; yet, at times AI can be difficult to understand, turn into a safety issue and be energyhungry. Therefore, Infineon strives to develop AI with the following characteristics:



Responsible and transparent use of AI

Our goal is to unlock value from the use of AI technologies and align its use with our values. This includes understanding and managing how AI-based solutions arrive at their results to avoid unintended bias. We want to make AI transparent for both Infineon employees and our customers. To do this, it is a prerequisite that we also indicate where AI is actually being used and provide accountability.



AI for privacy and data protection

Moving intelligence from data centers (cloud) to end devices (edge) can be a big advantage in terms of privacy: Using our products, data can be processed locally in devices without having to send it through the Internet. In this way, a huge gain in privacy is achieved in a future world where everything is connected, but sensitive data does not leave its own network.



Human-centric AI

We think about human-centric technologies in the long term. We develop solutions that preserve people's autonomy, support them, and make their lives easier: our goal is to use AI technology as a companion that, for instance, takes over repetitive tasks, thus giving people room for higher-level tasks, enabling better decisions and let them focus on what is relevant. Technology should always adapt to people, not the other way around.



Safety and security

It is part of Infineon's DNA to offer security solutions, for example for industrial robots, IoT and mobile payment applications. In the age of AI, hardware-based security solutions will be crucial – integrated software is protected by end-to-end mechanisms. Our secure AI solutions ensure the safety of our customers' products, for example at human-machine interfaces. Accordingly, we also use the possibilities of AI to develop the security functions of our products.



Inclusion

Infineon is committed to the rule of law, respects human rights and fosters diversity in our global work force. These principles guide our daily development work, also with regard to AI: Non-discriminatory practices are the standard we embrace when building teams, processing our data, coding and deploying AI solutions.



Sustainability

Both in our internal processes and workflows and in solutions for the market, we strive for minimal use of resources and energy. The use of AI must also be measured against this. This will be even more of a guiding principle for our on-chip AI systems:

- We develop solutions for efficient, embedded applications. As a result, our edge AI solutions bring significant energy savings compared to generic algorithms running on general-purpose chips.
- Equally important, we are enabling AI solutions that contribute to more effective energy use, e.g. in smart buildings or household appliances.
- In addition, our energy conversion technologies are helping to make data centers – the world's AI backbones – more energy efficient.

2 Responsible AI – how we do it

We put our principles into practice in order to make responsible AI part of our organizational DNA:

Upskilling

- We use toolkits with tutorials and code samples to make AI explainable – thereby, we train our experts to understand AI decision-making and interpret its results correctly. This helps to counteract biased outcomes.
- We systematically include ethical questions in Infineon's internal AI communication efforts to raise awareness on all levels.

Responsible AI by design

- We implement the boundaries for responsible AI in our operations, e.g. through embedded processes which help to identify risks throughout the AI project life cycle. We develop AI following the highest quality and peer review standards which are firmly grounded in our company culture.
- In the design process, we deeply consider the effects of increasing complexity on humans. We strive for solutions that are comprehensible, easy, and do not overwhelm human tech capacities.

Executing human oversight

We have an AI & Data Clearing Function to which employees can turn if they want to receive guidance and resolve open questions about the ethical use of AI in their projects: The team works in a tandem formation with two employees from the tech and compliance side. Should there be AI use cases which cannot be unequivocally assessed by the clearing function, Infineon's Digital Council will inspect and resolve the case.

Being a trusted expert

Infineon maintains a regular exchange with governmental and non-governmental organizations on AI – here we provide our technical expertise to the policy-level and support the future of responsible AI. Responsible AI is at the core of our mission – connect with us to make the world easier, safer and greener with AI!