

How semiconductors will drive forward the Net Zero transition

David Verity
Senior Director – Design Platform

24 April 2024



Sustainability: A global challenge

Net Zero
emissions by 2050
required to achieve climate goals

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





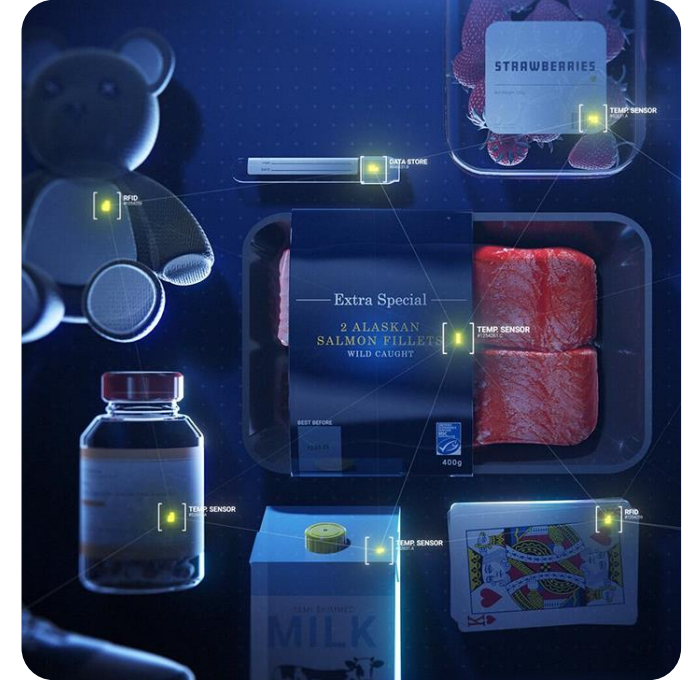
The role and impact of semiconductors in digital transformation



Cloud



Edge



Item



A confluence of global challenges confront the semiconductor industry



Broken supply
chains



Geopolitical
tension



Skill
shortages



Sustainability



Pragmatic Semiconductor

Simply Intelligent: Flexible integrated circuit technology



- World-leader in FlexICs – low cost, ultra-thin, flexible integrated circuits
- A sustainable, cost-effective alternative to silicon
- Enabling connect, sense and compute capabilities



Revolutionising semiconductor manufacturing

Billions

of FlexICs per fab line
per year

<48hr

Production cycle time –
versus months for silicon

Low-cost

development and
production

10-100x

lower carbon footprint



Less energy



Less water



Fewer harmful chemicals



300mm FlexIC wafer volume production



Item-level intelligence – for good



Enabling
reusable packaging



Reducing waste



Reimagining
low-cost, digital
healthcare



Our mission

To see our sustainable technology deployed in trillions of smart objects over the next decade



Thank you

www.pragmaticsemi.com



@Pragmatic



@Pragmatic_Ltd

Copyright © Pragmatic Semiconductor Limited 2024. All rights reserved. This document is confidential. The copying, reproduction, or transmission of it or its contents (in whole or in part) is prohibited without the prior written permission of Pragmatic Semiconductor Limited ("Pragmatic"). The information in this document is believed to be correct and accurate at the time of publishing.

Pragmatic is a limited liability company registered in England and Wales with company number 07423954. Pragmatic's technology, products, branding, information, and data are protected by intellectual property rights around the world and its confidential information may constitute trade secrets. Pragmatic's logo, and the words "PRAGMATIC", "FLEXLOGIC", "CONNECTIC", "FLEXIC FOUNDRY", "FAB-AS-A-SERVICE", and "FAAS", are registered trademarks of Pragmatic.