

Working in the Semiconductor Industry

Fast moving industry – have to cope with exponential growth in complexity

> 100x-200x increase in complexity in last 15 years

- Generation-to-generation improvement in efficiency

- Ability to think innovatively

- Ability to learn from others - continuous development

> New problems with every iteration

- Strong problem solving skills

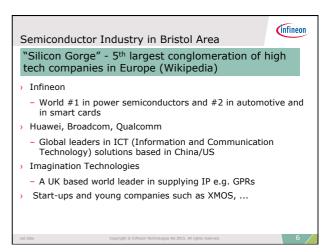
> High degrees of automation

- Use of EDA tools

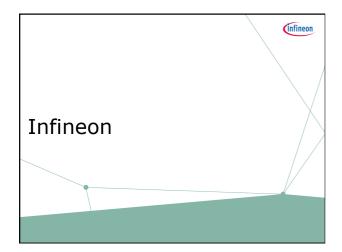
- Strong programming, scripting and data analysing skills

> Re-use as much as possible

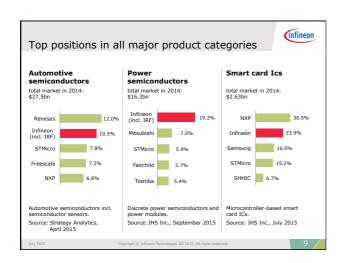
- Understanding of modular development

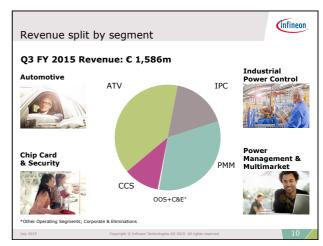


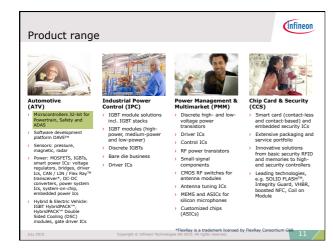


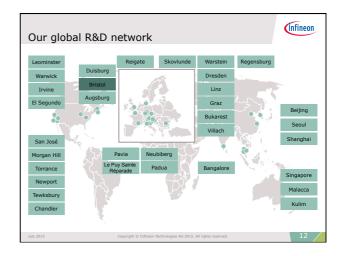




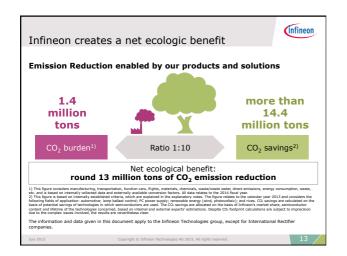


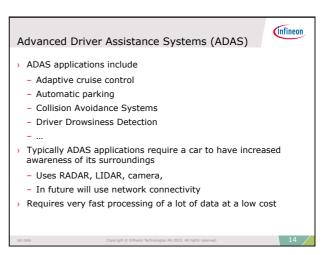




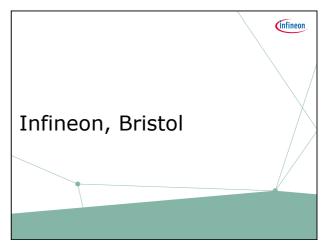


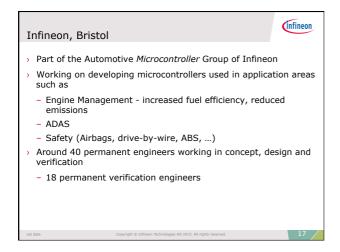


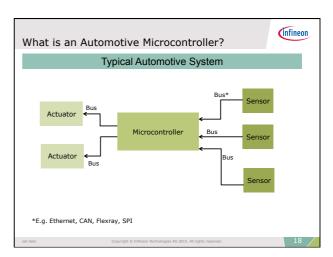




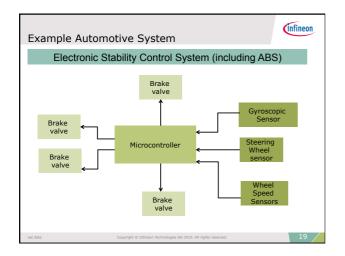


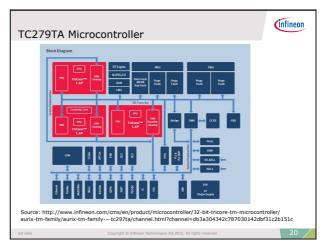


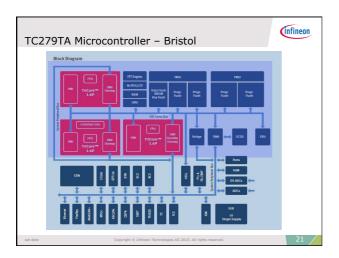


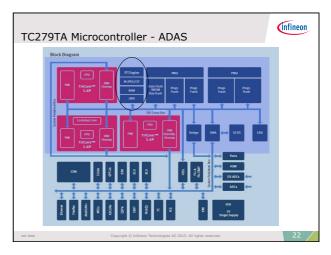


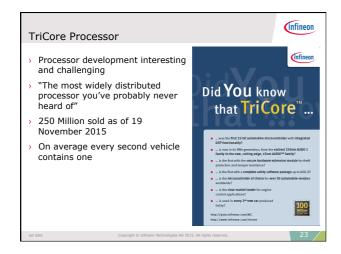


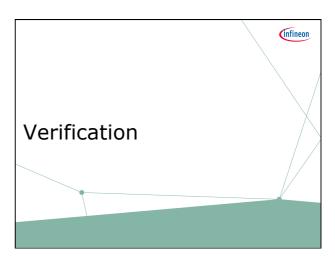




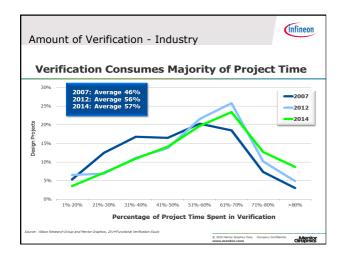


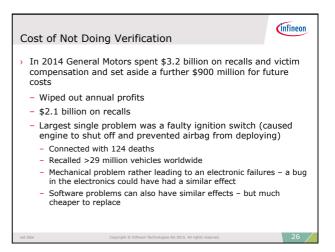


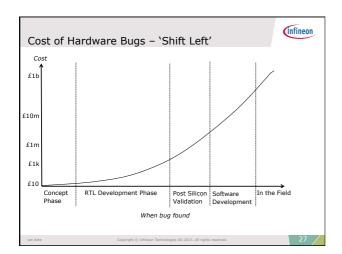


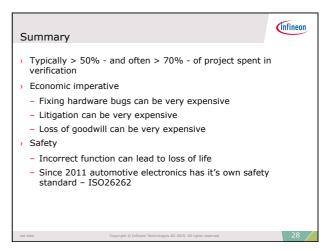


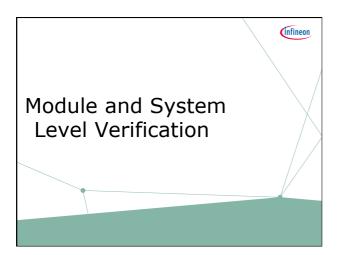


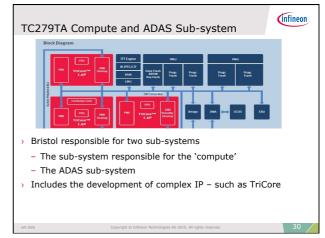




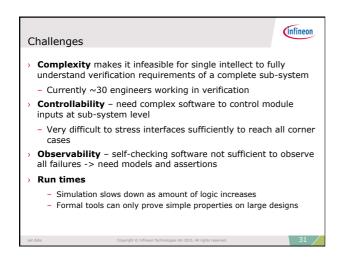


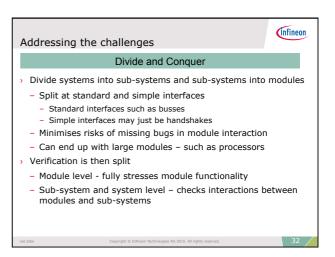


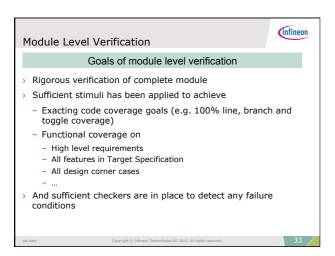


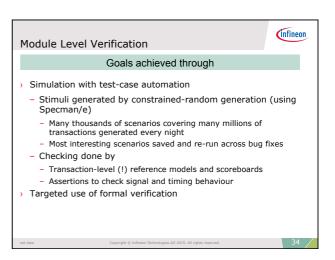


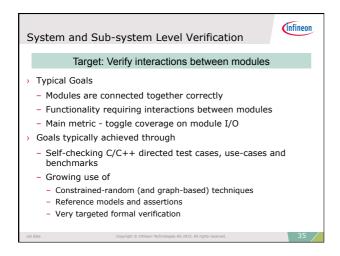






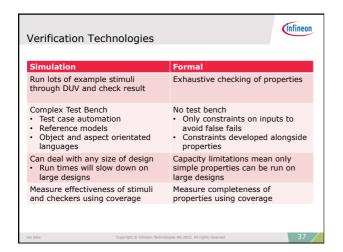












When we use formal			
Early	Formal Friendly	High Risk Blocks	Simple checks
 No up-front test bench development 	Low effort and high return	 High effort but still good RFE 	 Properties generated by scripts or
 Take an Agile approach to design 	E.g. maths blocks such as adders	Candidate blocks:Have many	 Inbuilt push- button Formal Apps
Property- driven approach	and ECC encoders and decoders	corner cases Are mission critical	Usable at (sub-) system level
 Used by designers 		 Highly configurable and highly re-used 	E.g. Connectivity checks using xml
set date	Copyright © Infineon Technolo	5 ,	

