



#### **TMC**



PEOPLE DRIVE TECHNOLOGY

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TMC Group (~900 People), Entrepreneurial Technology house,

Multi-disciplines, locations in Netherlands and Europe

Services: In-Sourcing, Consultancy and Projects

**Business Cells involved in Product Development, from** 



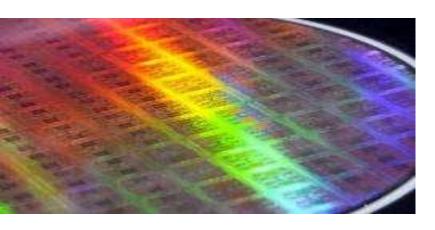




TMC Electronics (~60 people in NL), TMC Group ~80 people

Services: Chip, Board, System

**Involved in Product Development, from Research till 0-Series** 



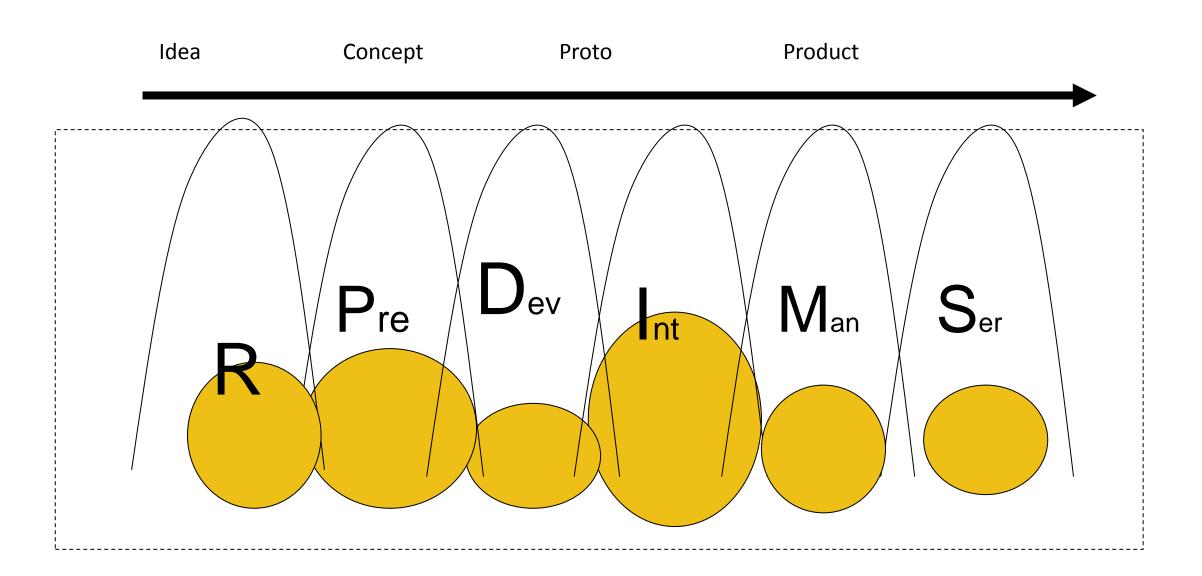






# How are products Developed in 2016?







**CHIP REQUIREMENTS** 

**DESIGN IP & INFRA** 

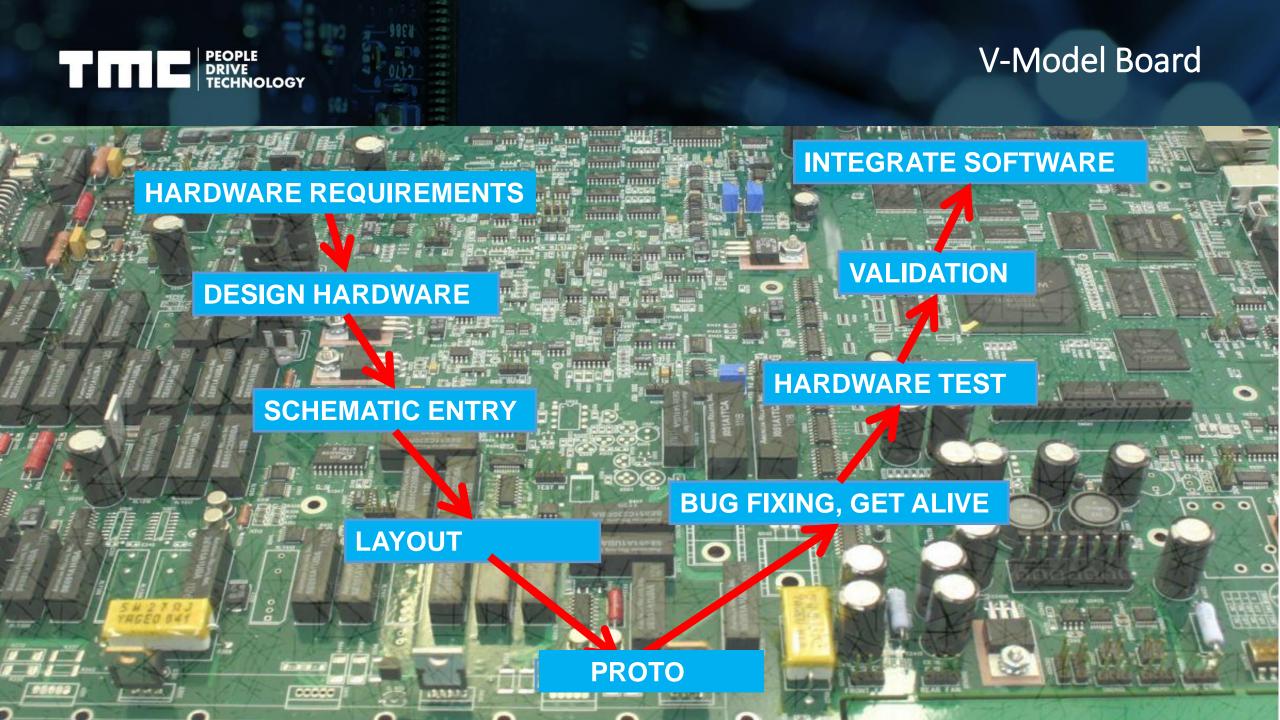
**VERIFICATION** 

**SYNTHESIS & LAYOUT** 

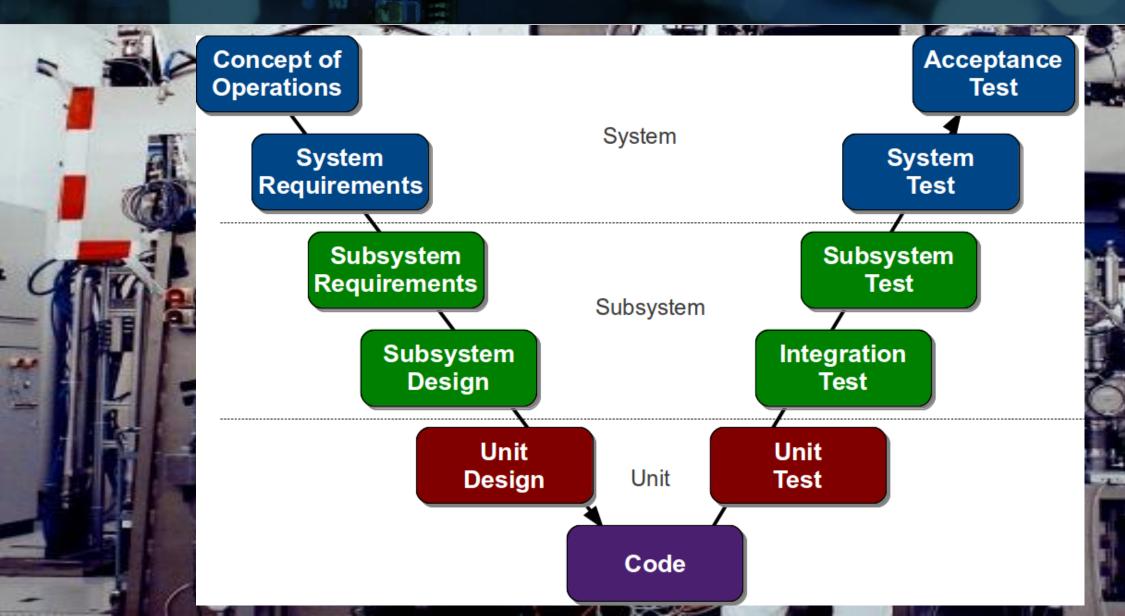
**INTEGRATE SOFTWARE** 

**VALIDATION** 

**TAPE OUT** 



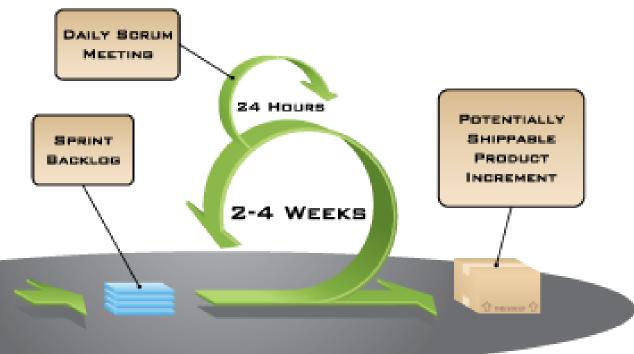






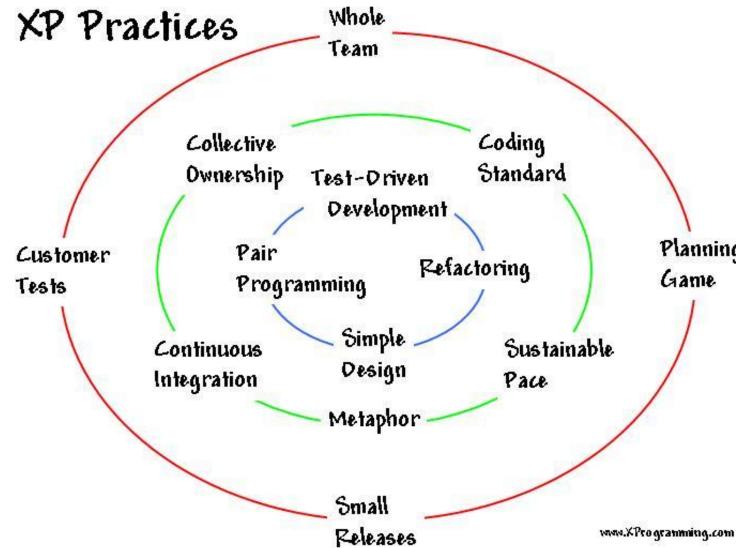
### Software: SCRUM-Agile











Planning PHILIPS















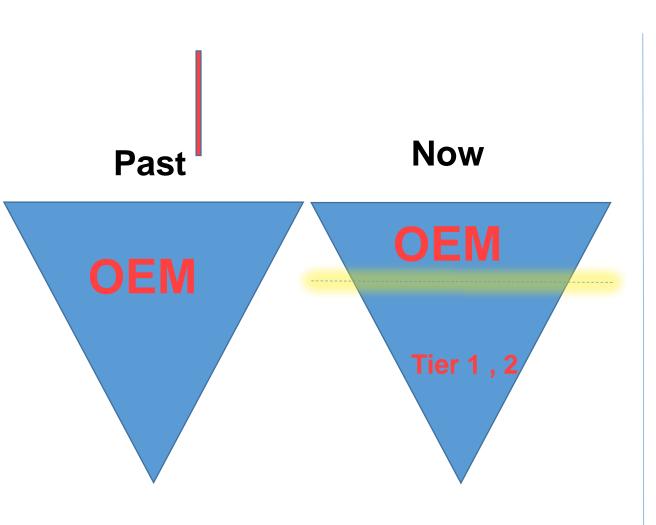


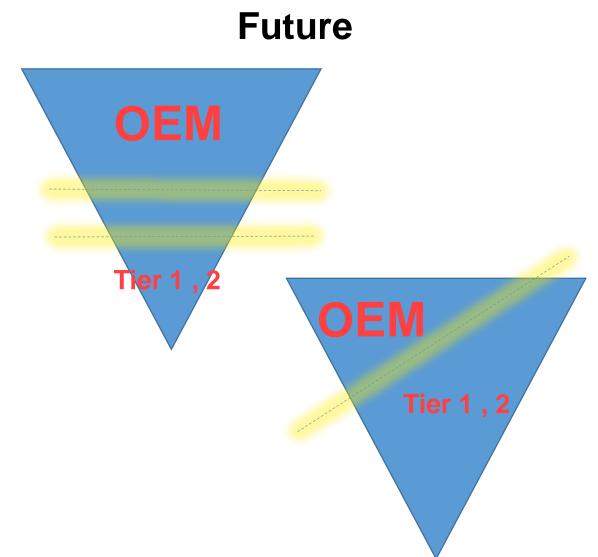


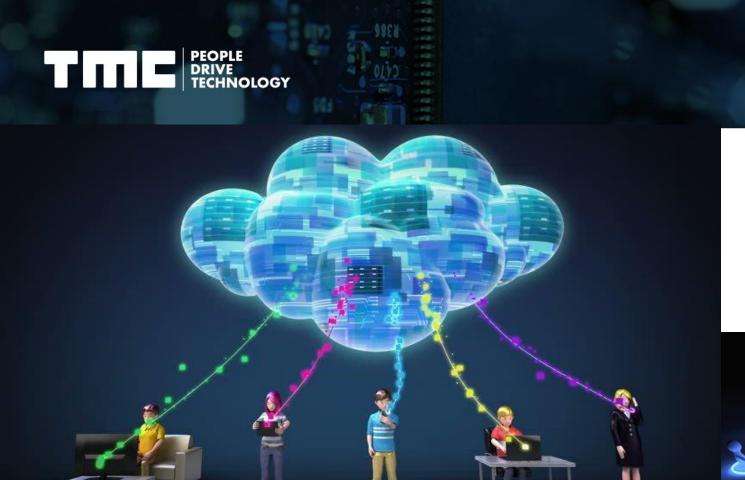


## What Trends can be seen?









2.Trends 2020

**Everything Connected, Devices & People, Multi Discipline** 





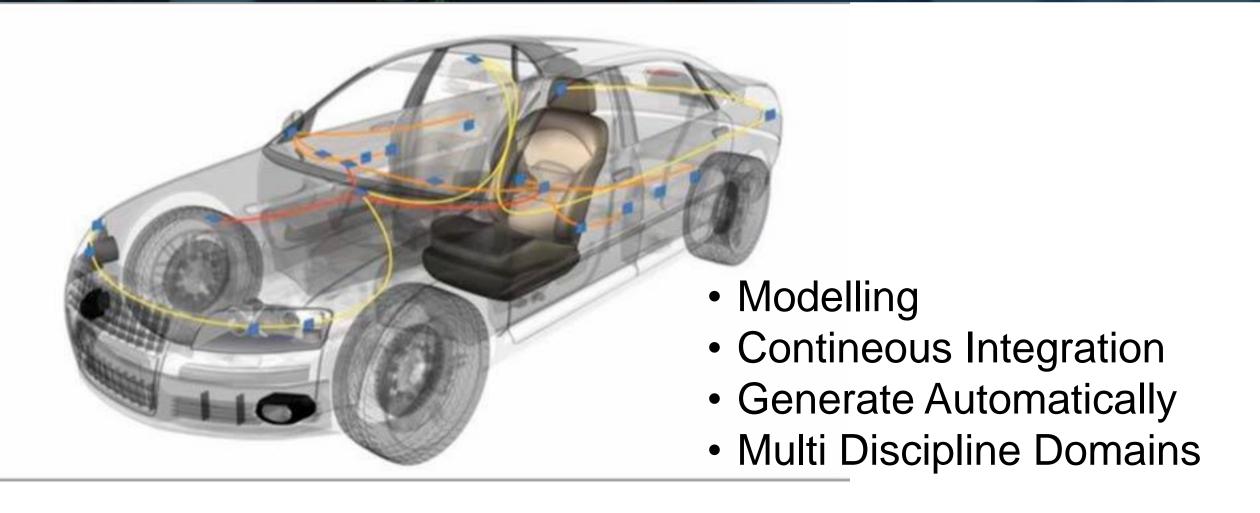
### **APPROVED**



- Product Quality
- Process Quality
- Company Image











- Shift in Development Process of Products OEM-T1,2
- Everything Connected, Multi-Disp
- Quality Products/Processes
- First Time Right, Auto Generate
- Shortage ""Skilled"" Tech People



### Impact on Engineering in 2020?









**Get T-Engineers** 



- Multi discipline
- Has global knowledge of several disciplines
- Strong and in depth knowledge of 1 technical discipline
- Communicate with other disciplines and Stakeholders and Subcontractors
- Entrepreneurial Attitude
- Is focused on Quality and RAMS
- Is Customer Oriented and has Excellent soft skills





MEC -----SW

LEC

Focused on the **Why** of the customer (Internal/external) and is able to translate this into solutions (**What and How**), It will make the difference

