

# MobileViewpoint

**DYNATRON**  
ELECTRONICS & EMBEDDED SYSTEMS

**Microtron®**  
Flexible electronic solutions

A two way perspective on  
carrierboard design

**DESIGN AUTOMATION & EMBEDDED SYSTEMS**

FPGA - SECURITY - EMBEDDED - INTERNET OF THINGS - PCB TECHNOLOGIEËN - BLUETOOTH LE - ELECTRONIC DESIGN & PRODUCTION

12 OKT ←  
1931 CONGRESCENTRUM  
BRABANTHALLEN  
DEN BOSCH  
**D&E  
event  
2017**

# Introductie en Agenda

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Michel van den Heuvel Microtron

Michel Bais Mobile Viewpoint

Wilfried Peezenkamp Dynatron

## Agenda:

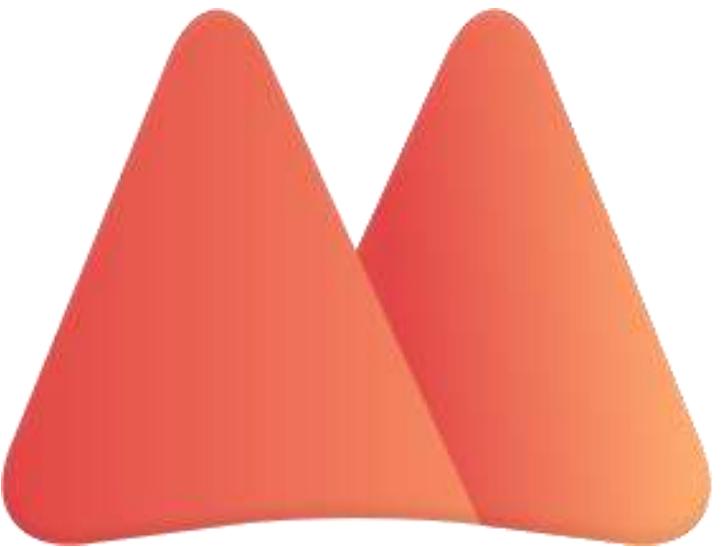
- Introductie Mobile Viewpoint (Michel B.)
- Hardware uitdagingen uit het heden en verleden (Michel B.)
- Com Express design een grote stap vooruit (Michel B.)
- Resultaten en pleidooi voor ontwikkeling van een eigen board design (Michel B. en Wilfried P.)
- Conclusie en samenvatting (Michel van den Heuvel)



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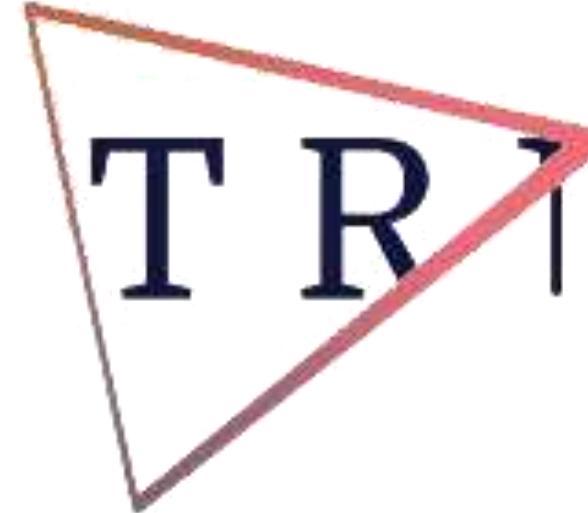
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IP CONTRIBUTION SOLUTIONS FOR LIVE  
BROADCAST



The hardware challenge



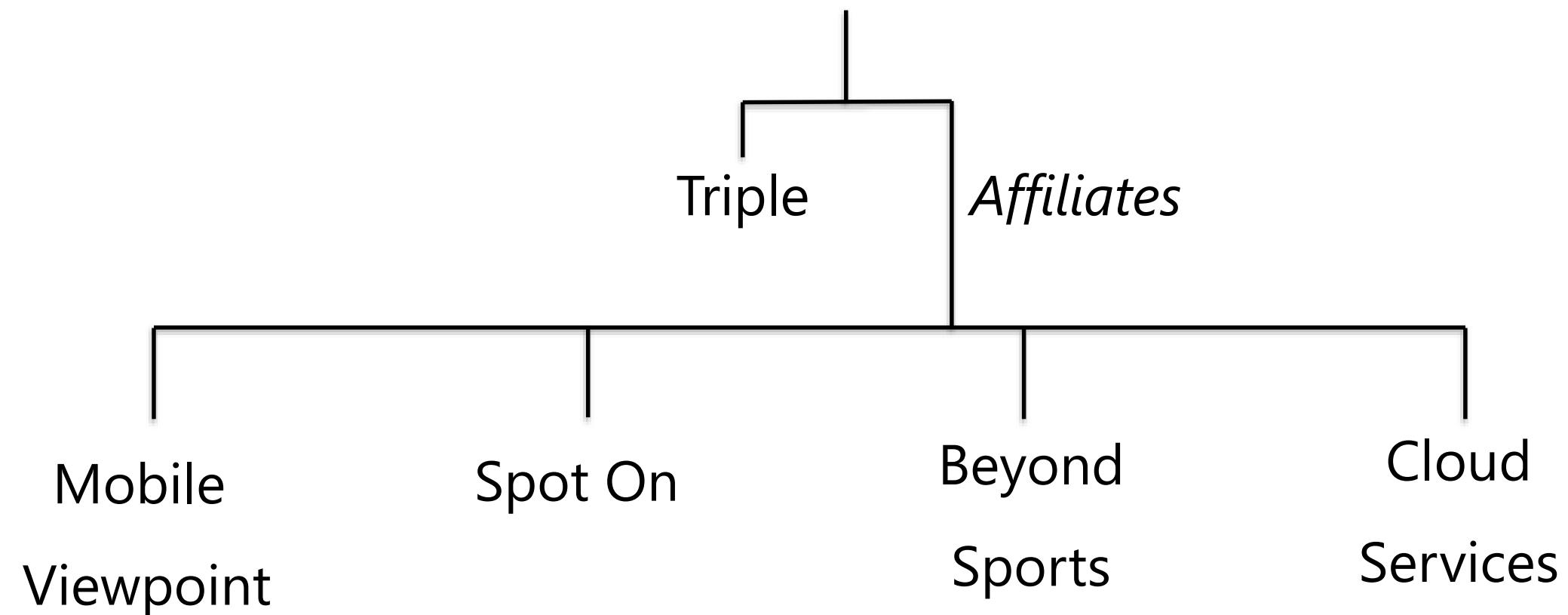


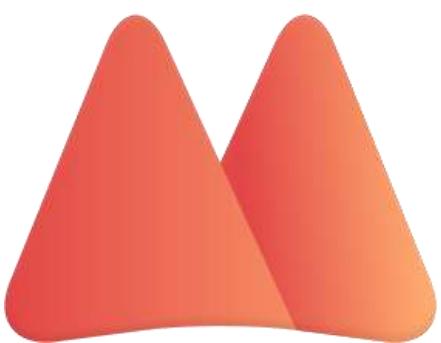
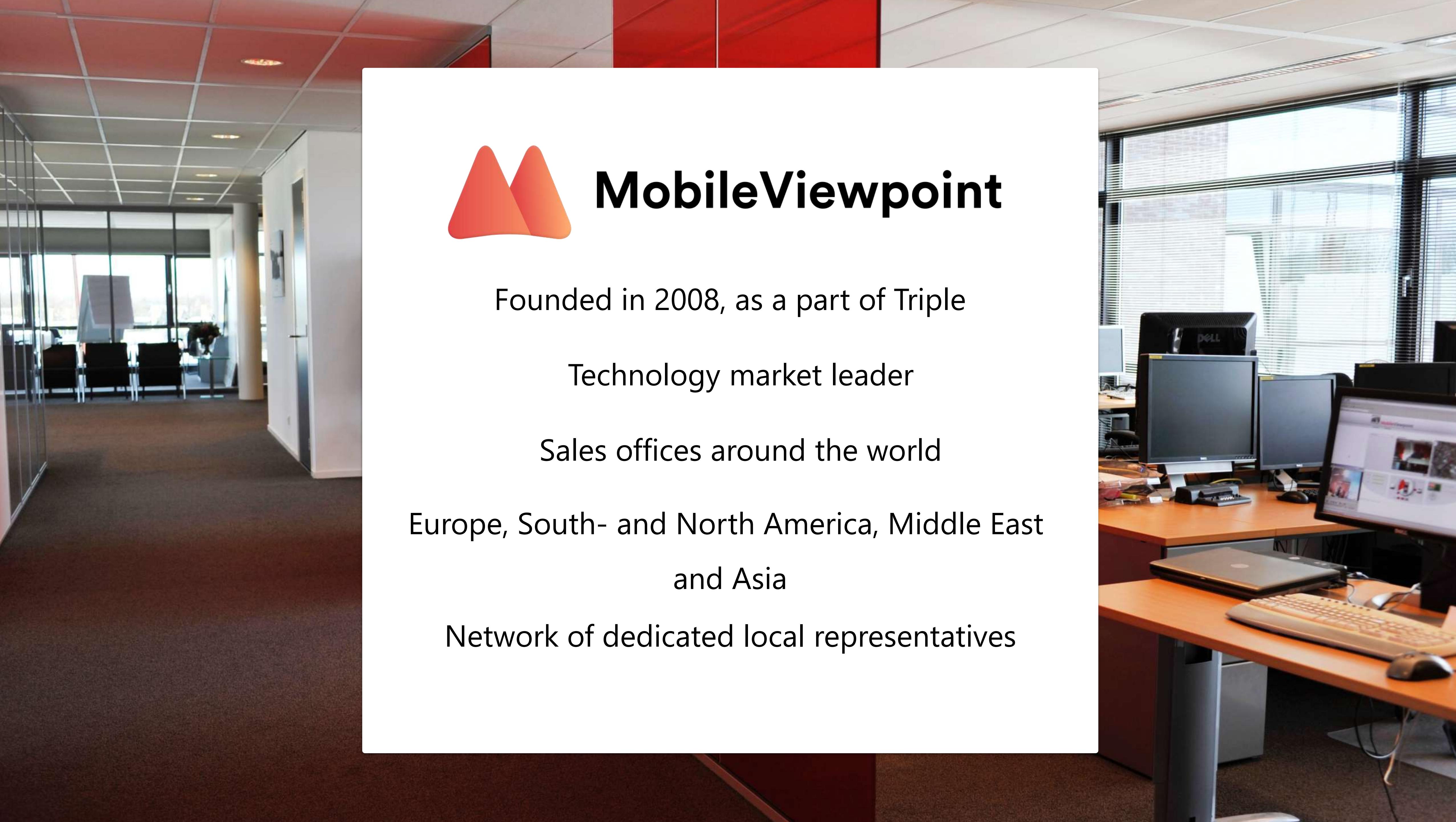
# TRIPLE

# A Triple company

# Founded in 1998

# We are Triple





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Founded in 2008, as a part of Triple

Technology market leader

Sales offices around the world

Europe, South- and North America, Middle East  
and Asia

Network of dedicated local representatives

# Customers

*Who are we working with?*

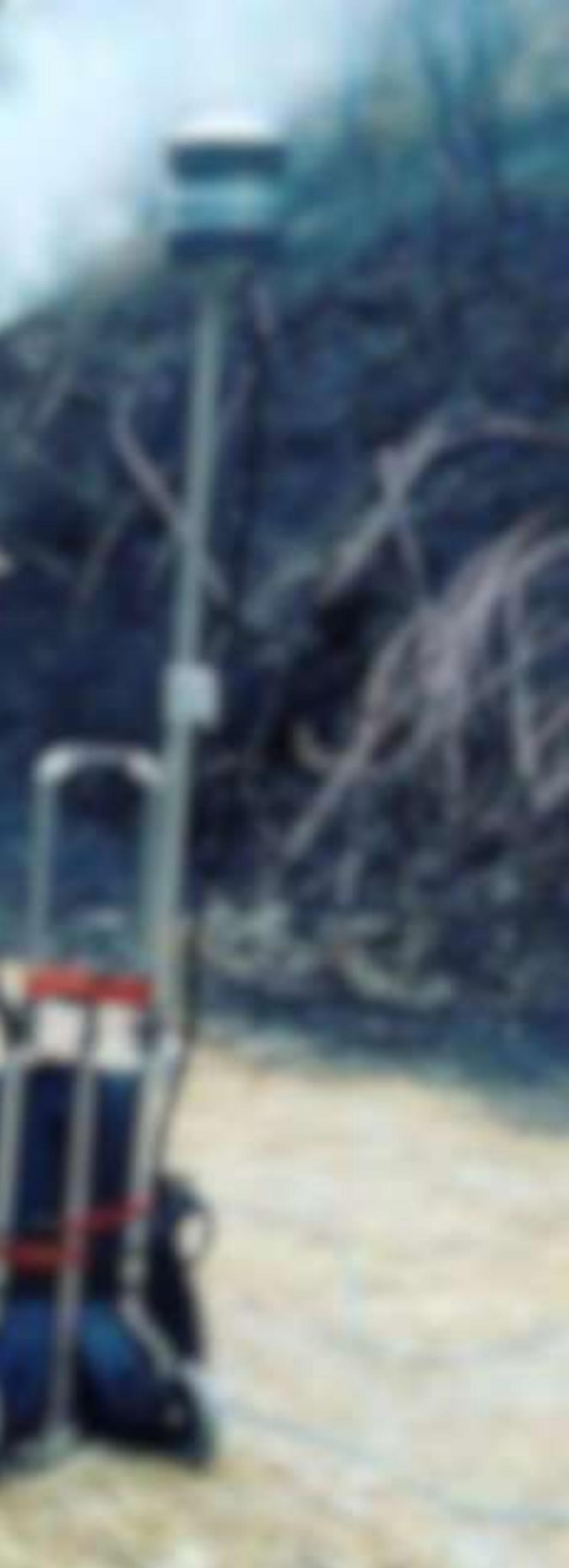




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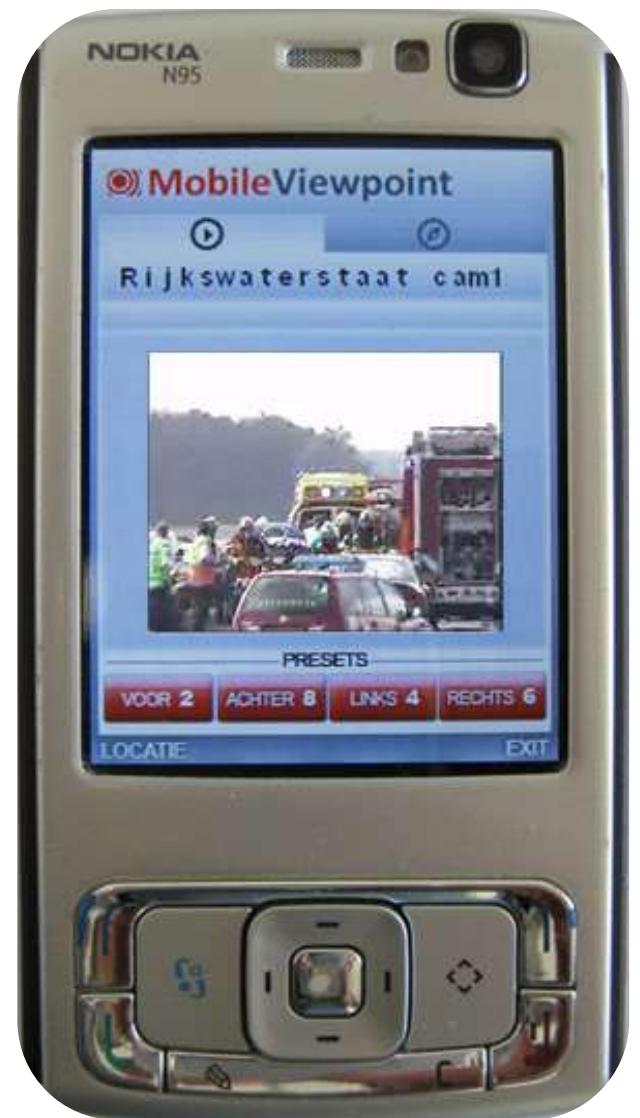


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# The Hardware Challenge, the plastic series

2008



2009



2010



2011



2012



ARM



# The Hardware Challenge, the Alu series

2013



2015



2017



2017



2017-18



ARM

intel H.265  
MPEG-4/AVC

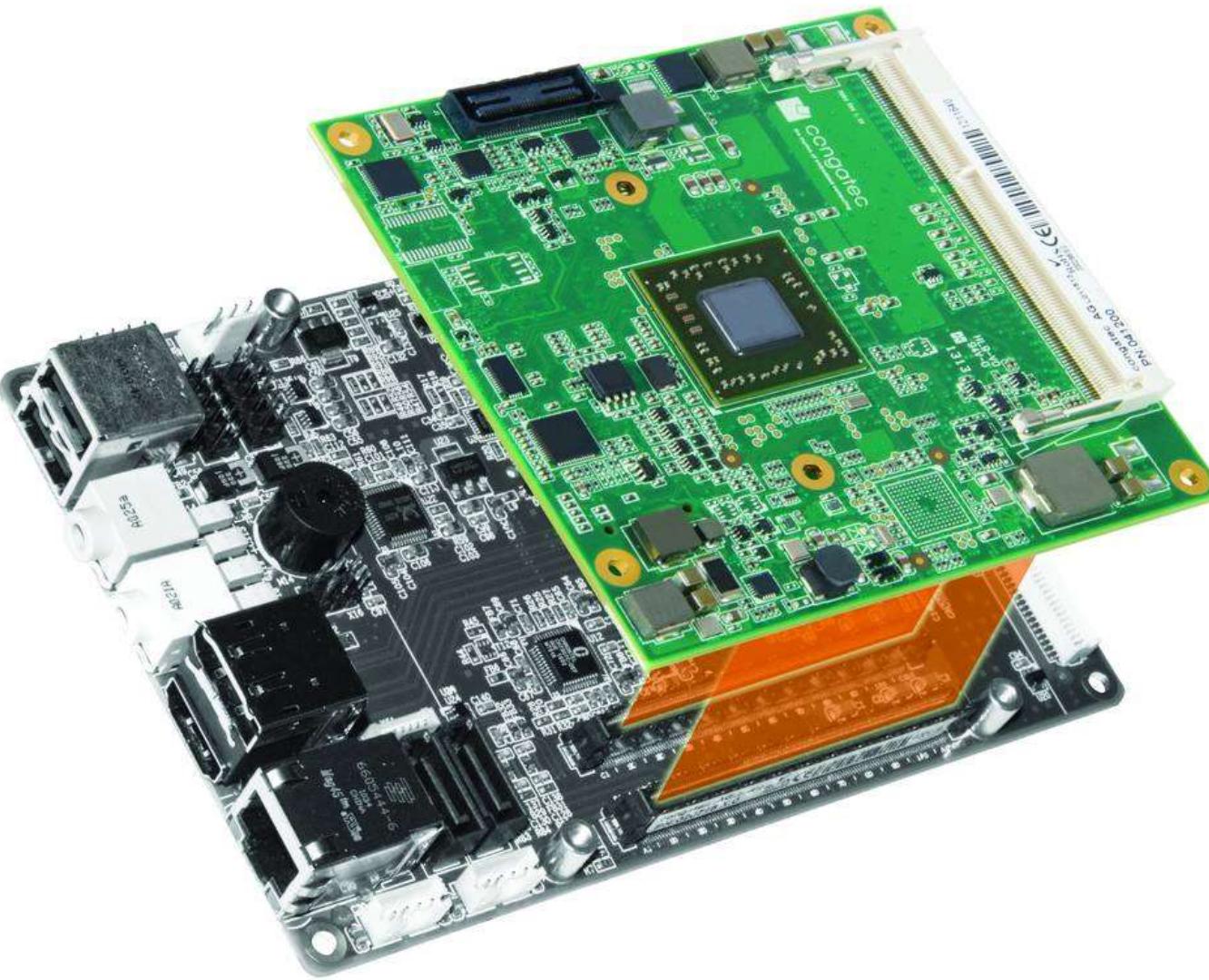
ARM

com Express intel H.265  
MPEG-4/AVC

# The Hardware Challenge our own Com Express MoBo

Why:

- One carrier board for many CPU flavors
- Small design possible
- Reduce manufacturing costs
- Customization can be done
- Standards based



Challenge:

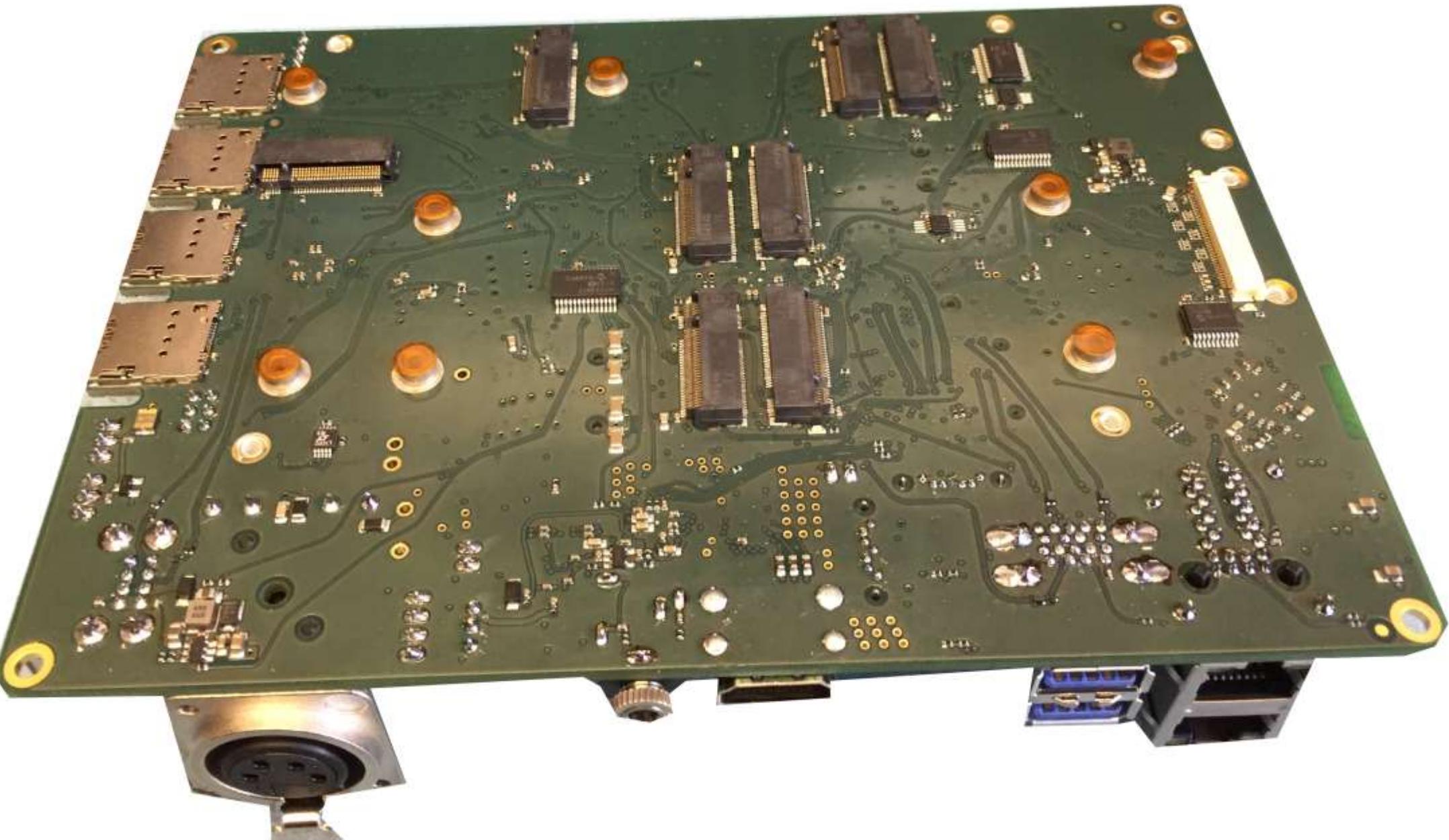
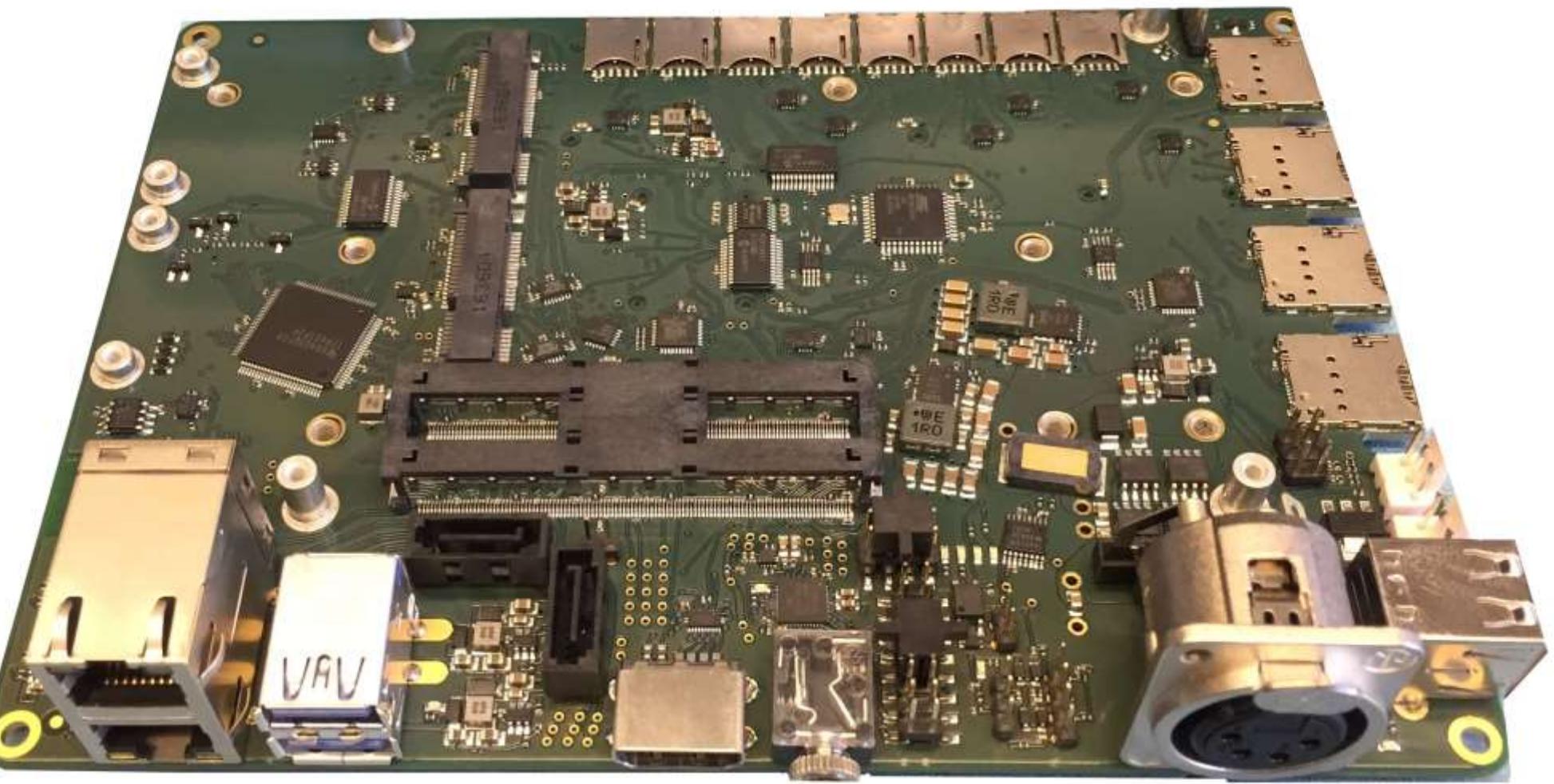
- MoBo design requires skilled personnel
- Keep design cycle within costs and time
- Design labs are always in Asia but also in NL

# Dynatron, eigen board design?

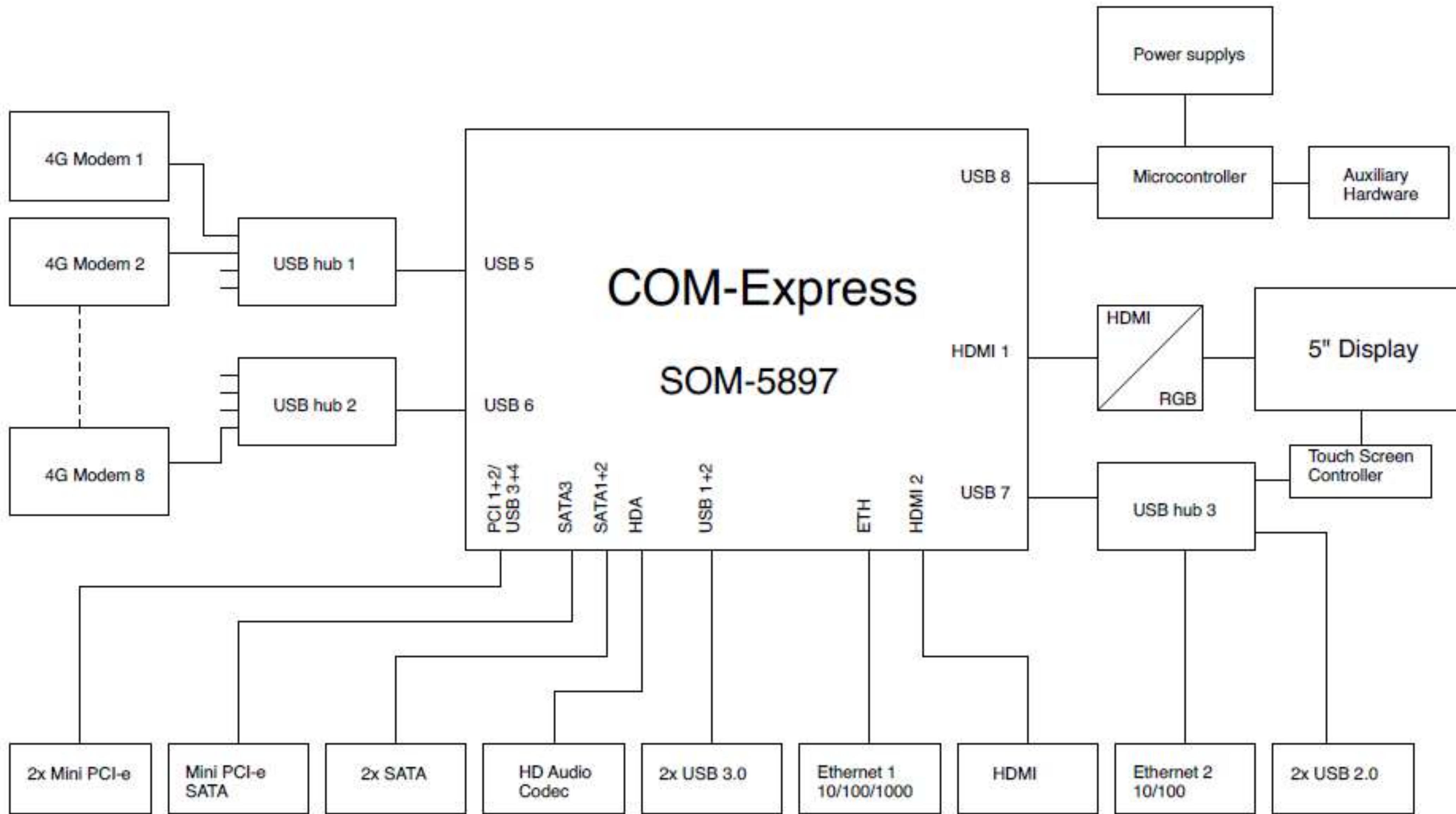


# Dynatron, eigen board design?

- Kenmerken van de elektronica print algemeen.
- Ontwerpen in overeenstemming met EMC en belang van EMC.
- Andere randvoorwaarden.



# Dynatron, eigen board design?



# The Hardware Challenge, what we learned



# Conclusie en samenvatting

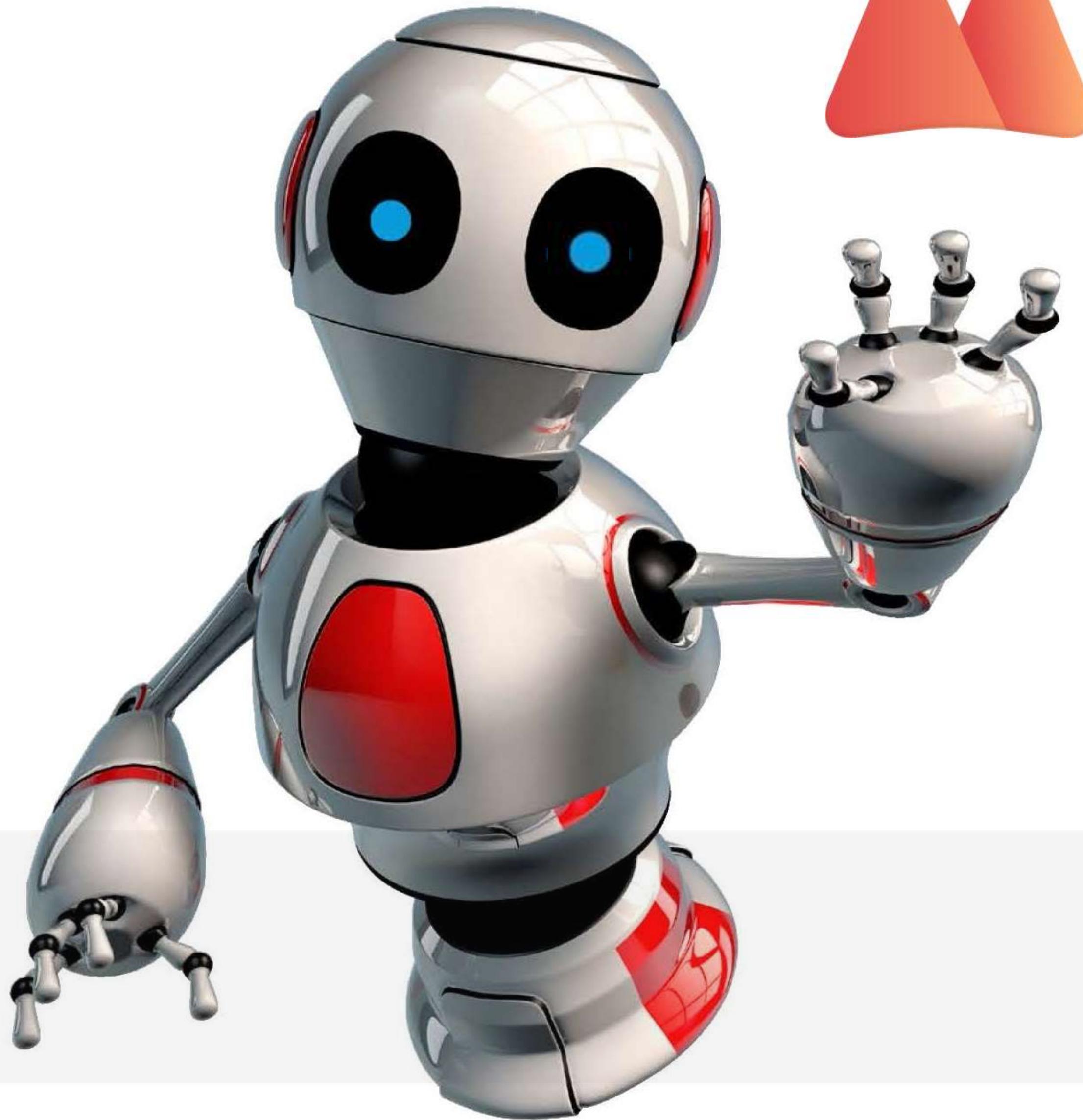
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- Partnerschappen zorgen voor de juiste benadering en het behalen van gestelde doelen.
- Doordacht design veranderd visie in product.
- Het juiste voorraad beheer zorgt voor investering mogelijkheden.
- Zoek eerst lokaal, Nederland is ontwikkelland bij uitstek.
- Met je juiste fabrikanten, is after sales geen kopzorg meer.
- Bespreek je visie met de juiste leveranciers, die “out of the box” denken en voor de oplossing gaan.



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