

# **Methods in Early Product**

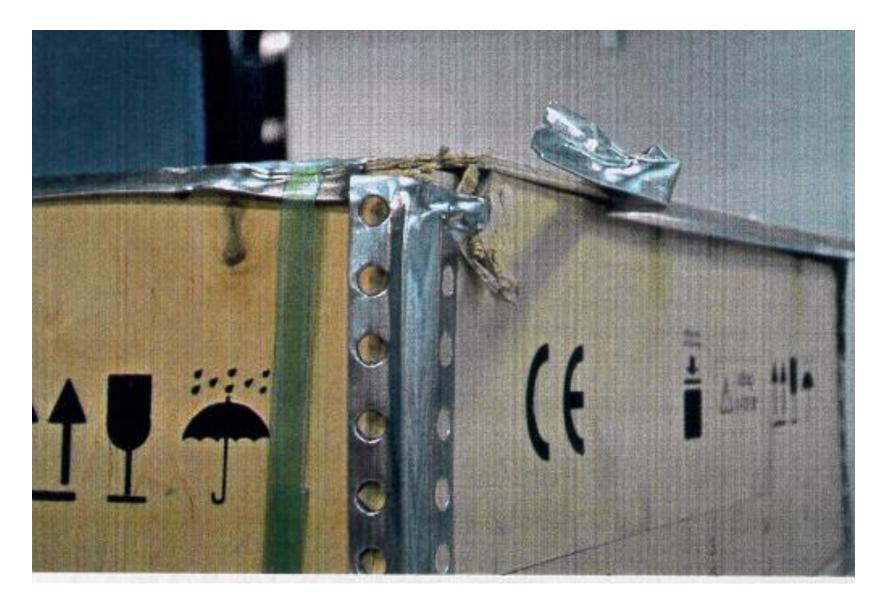
# Development

lecture 2







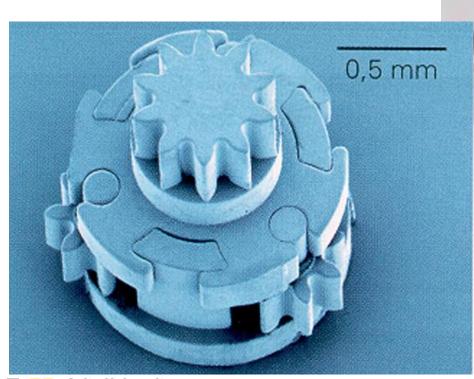




Lähde: Manner, Timo













# becoming old?

- •32,3% of japanese citizens over 65 year 2050
- •in China, India from 4%->10% during last 20 years
- •in EC, >35% consumer spendig by >50
- •in EC, >65% savings
- living at home longer is emerging trend

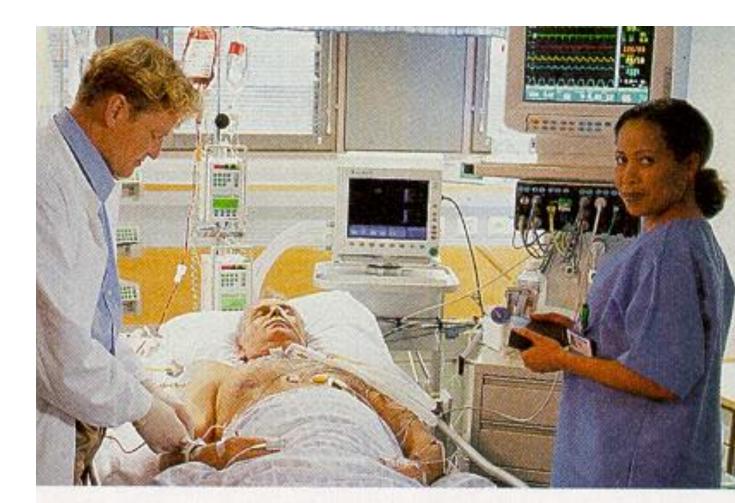


(IDEO)

understand - observe - interpret - visualize - realize - communicate - implement



Ask Watch Learn Try





# RESEARCH; summary

# in succesful projects:

customer needs have been understood better

more attention was paid on marketing issues development was more effective (not allways faster) more external help was used responsible persons had more power and authority



# RESEARCH; summary

# failure statistics:

poor market analysis	45%
faulty /poor products	29%
inefective marketing & sales	25%
high production cost	19%
competiton	17%
false timing on market launch	14%
problems in technology / production	12%
miscellaneous	24%



# CASE "ITERA" success story

- •1973 Volvo mini car research
- plastics opportunities
- >200 product ideas, to be made of polymers
- •energy crisis I and II
- •1980 new enterprise founded
- marketing of "everlasting bike"
- •introduction 1981, enormous attention in media
- •production ramp-um 1982
- •1982 production volyme 14 000

# **Project**

- professionals
- top specialists
- international experts
- competitive market price
- FEA optimized structure

- •1982 sales <7000 pcs
- bankruptcy 1982/1983, trade depts ~20 milj.



ITERA vm. 1982





# Kaikki uudet Minit joutuvat takaisin tehtaalle

AP München

Suurella kohulla lanseerattu uusi Mini on osoittautunut niin vaaralliseksi, että kaikki noin 7 000 valmista autoa joudutaan palauttamaan takaisin tehtaalle korjattavaksi. Asiakkaille Mineiä on toimitettu vasta viitisensataa.

Ongelman aiheuttaja on polttoainesäiliön täyttöaukko, jonka maadoitukseen käytettävä erikoismaali kuluu liian nopeasti. Kun maali on kulunut, saattaa tankkauspistooli aiheuttaa kipinän, joka voi



Nolo korjausoperaatio maksaa BMW:lle vajaat kolme milioonaa markkaa.

räjäyttää koko polttoainesäiliön tuhoisin seurauksin.

Suunnitteluvirhe on aiheuttanut jo kaksi tulipa-

loa, kertoi Minin tuotemerkin omistava saksalainen autonvalmistaja BMW eilen.

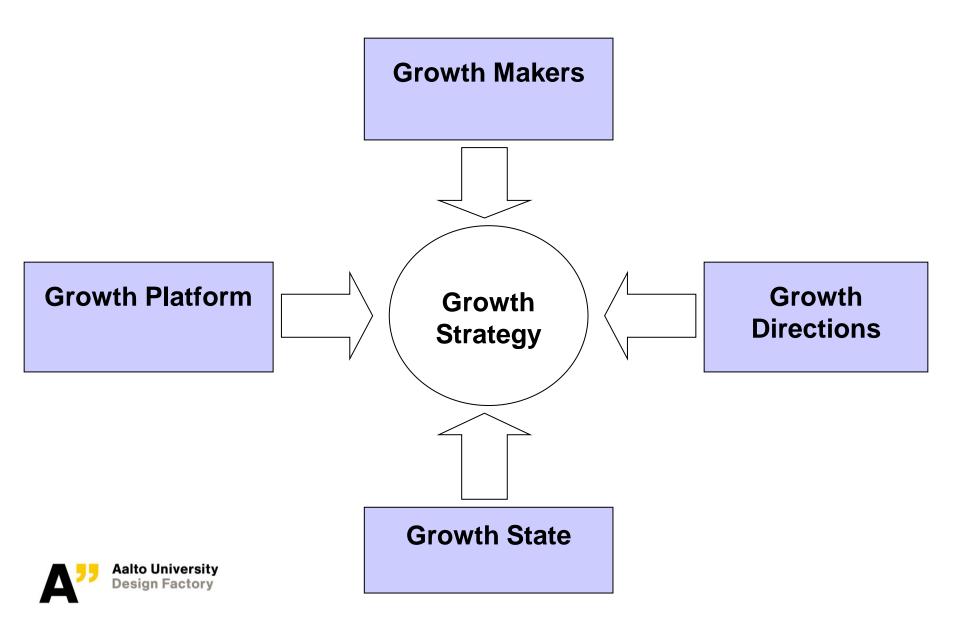
- Tulipalot olivat hyvin rajoitettuja eikä kukaan loukkaantunut, sanoi BMW:n edustaja Rudolf Probst.

Minit korjataan autot valmistaneessa tehtaassa Oxfordissa, Britanniassa. Polttoainesäiliöihin asennetaan erityinen maadoituskaapeli, jonka on määrä estää kipinöinti.

Mini tuli myvntiin Britanniassa heinäkuussa, ja se sai heti suuren suosion. Markkinoinnin Euroopassa on määrä alkaa suunnitelmien mukaan ensi lauantaina, ja Yhdysvalloissa Mini tulee myyntiin ensi

vuonna.

#### **Search for Growth**





#### **Growth platform**

- Economic state
- Abilities
- Management competence
- Operational environment



#### **Growth makers**

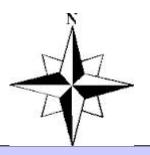
#### In-house

- •Competences
- **In-network**
- Competences
- Partnerships
- Internationalisation potential



#### **Growth State**

- Product protfolio
- Future ways of growth



#### **Growth directions**

#### In-house

- product/customermatrix
- new deliveries
- new branches

#### **In-network**

- •re-structuring
- Internationalisation
- •new regions



# Break throughs

- PC
- cell phone
- d-cameras
- flat screen
- dvd
- air bag
- abs

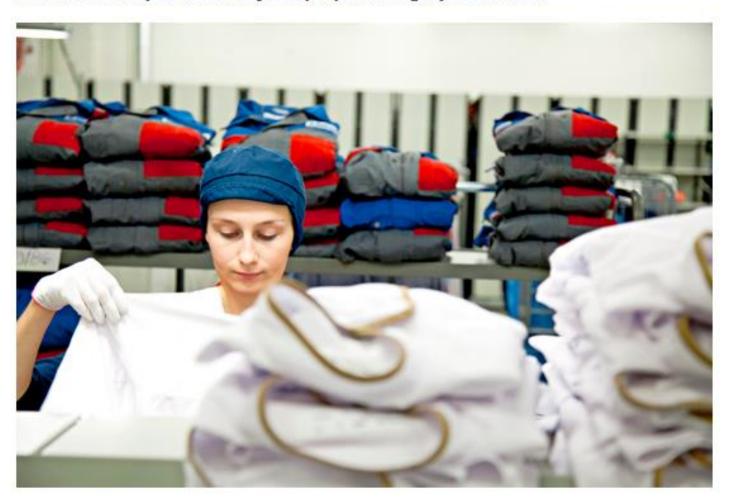
- glass facades
- energy drinks
- sms
- mountain bike
- inline skates
- nordic walking
- internet

- eco disc
- VF drives
- common rail
- solar panel
- el. water tap
- micro wave owen
- DLMS



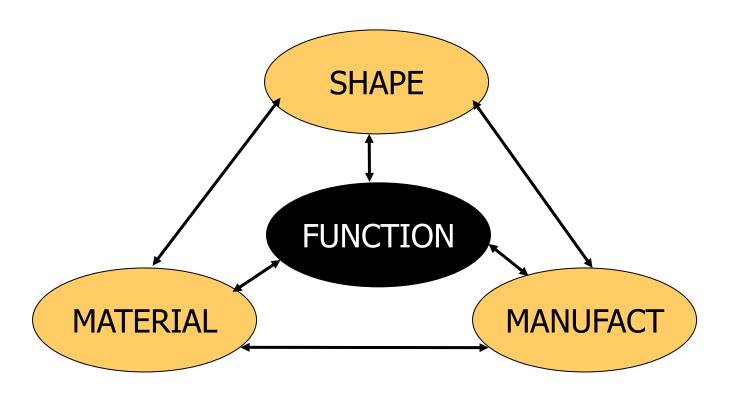
## **Puhdas palveluyritys**

Neljä pesukonetta jytää kyydissään 120 kiloa työvaatteita. Sinisiä haalareita tai valkoisia laboratoriotakkeja. Lindström pesee yritysten imagoa jo 21 maassa.







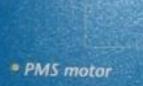












- No gear
- No machine room
- 3.7kW motor
- 3000kWh/a
- 16A fuse



- Induction motor
- Wormgear
- 5.5kW motor
- 6000kWh/a
- 35A fuse









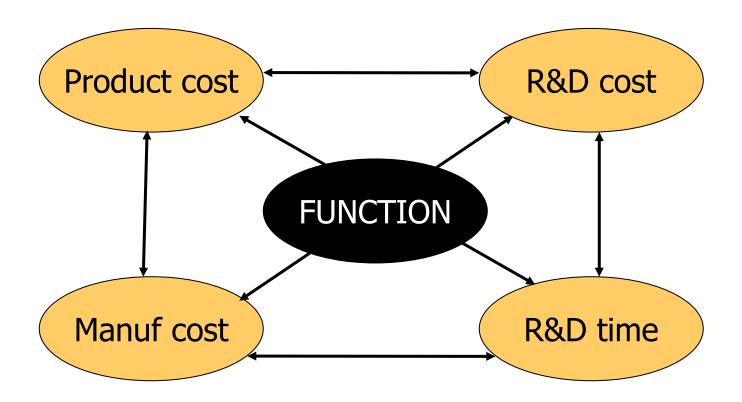
















# **CAREER AS A PRODUCT DEVELOPER**



# Hard elements

Core competence on something

S	oft
e	lements

- Teamworking
- Communication
- Language & cultural
- Project working
- Managerial & leadership
- Curiosity & hunger for learning
- Passion and love



# Success = $[C] \times [E]^2$

[competence] [enthusiasm]



# **Quality is everything**

#### Developing products

- performance
- features
- reliability
- conformance
- durability
- serviceability
- aesthetics
- perceived quality

#### Developing yourself as product developer

- Performance
- Special skills (on-duty, off-duty)
- Sense of practical issues
- Reliable team player
- Unexpected situations
- Hunger for learning
- Ethics and respect on others
- Reputation, networks, friends







https://www.youtube.com/watch?v=bzkv\_cqYZF4

https://www.ted.com/talks/rory\_sutherland\_life\_lessons\_from\_a n\_ad\_man

