

# LIVING LAB PART OF COMPETITIVENESS MODEL OF THE AUTOMOTIVE SECTOR IN SLOVENIA

Dušan Bušen

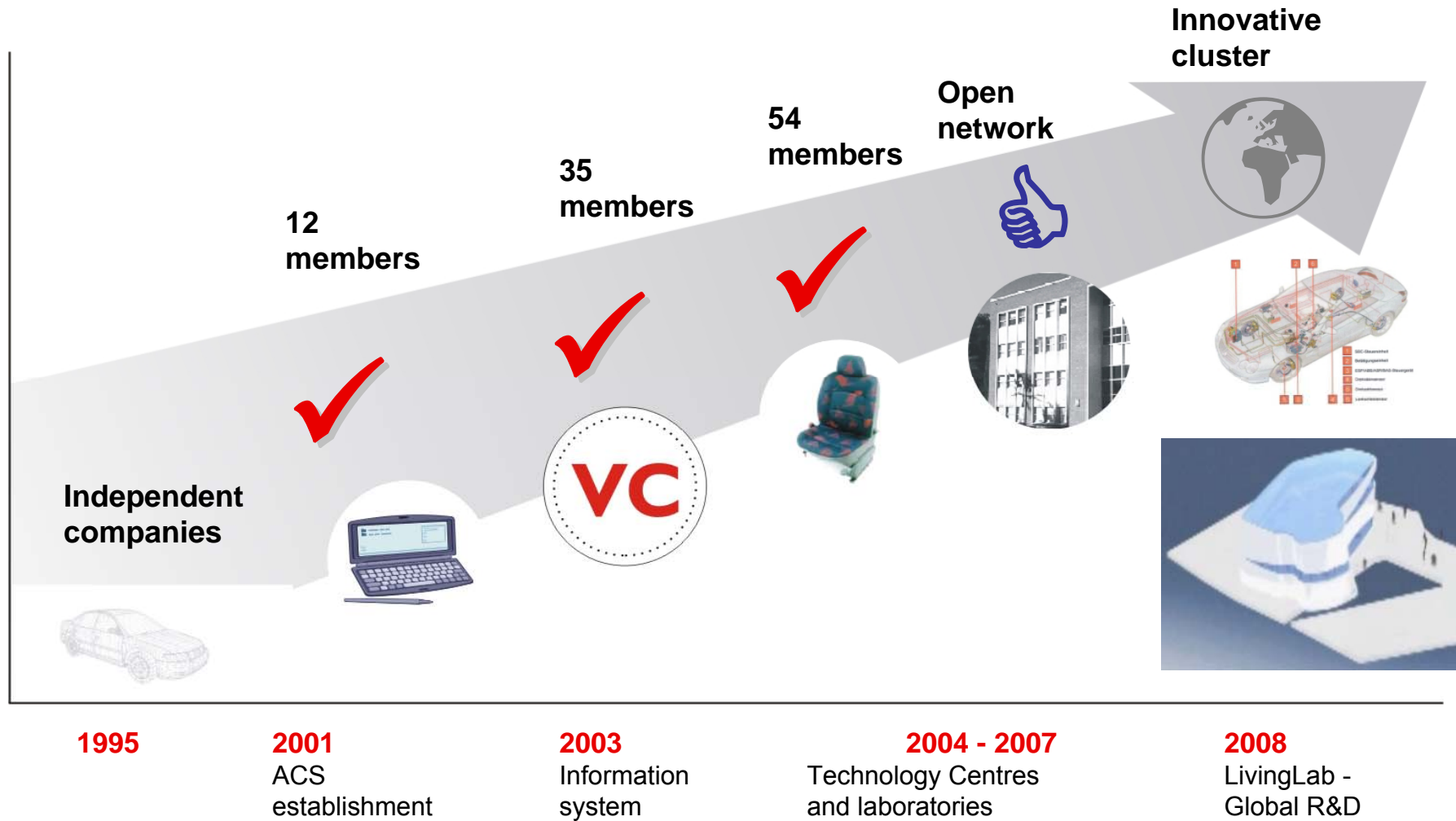
dr. Petar Orbanić

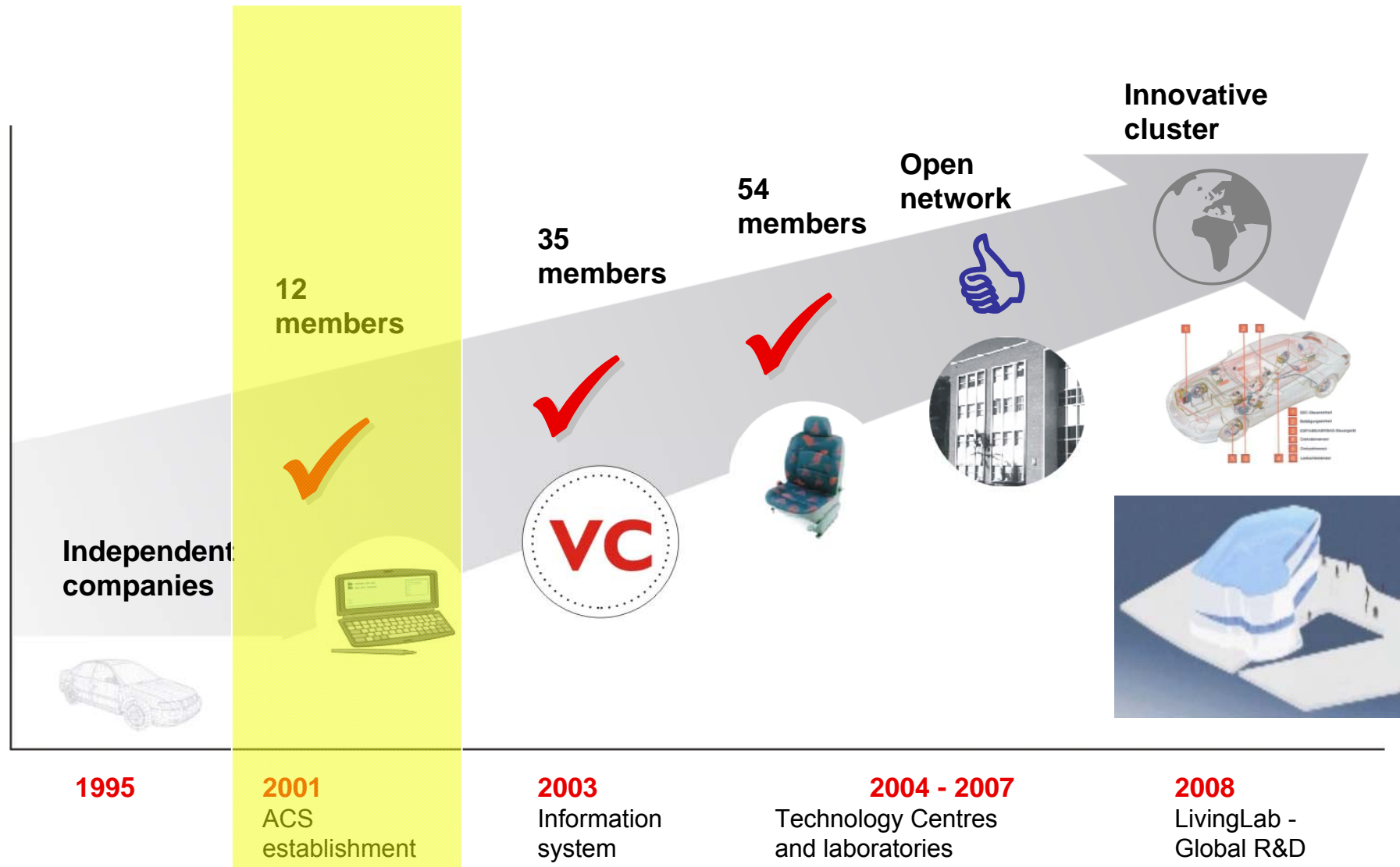
The ACS logo consists of the letters 'ACS' in a bold, red, sans-serif font.The CIMOS logo features a red circular icon with a white stylized 'C' inside, followed by the word 'CIMOS' in a bold, red, sans-serif font.



# ACS

*Automotive Cluster of Slovenia  
Slovenski avtomobilski grozd*

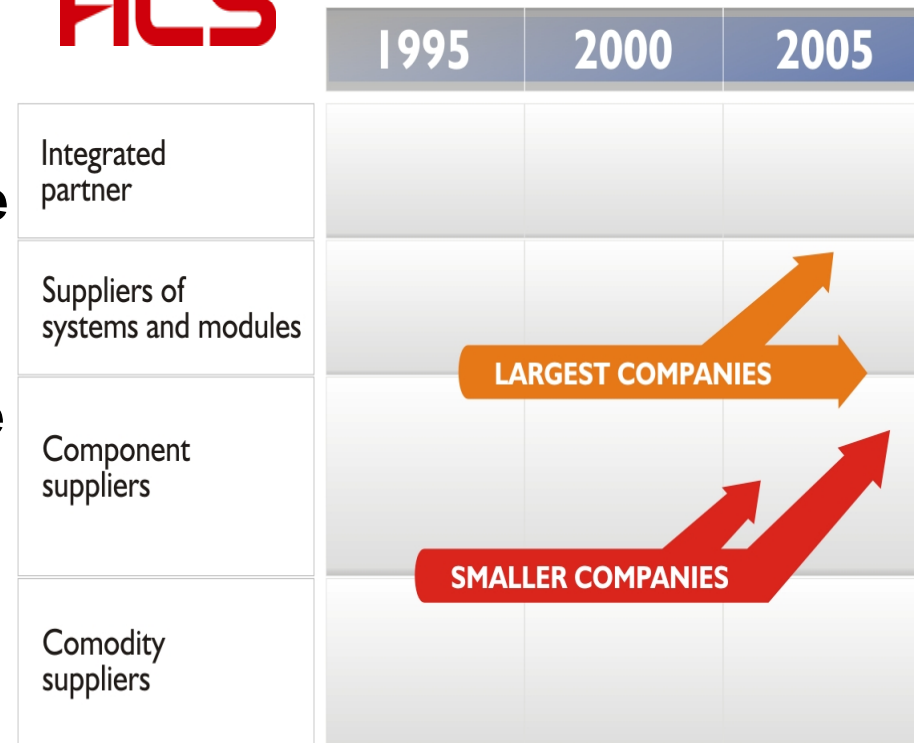


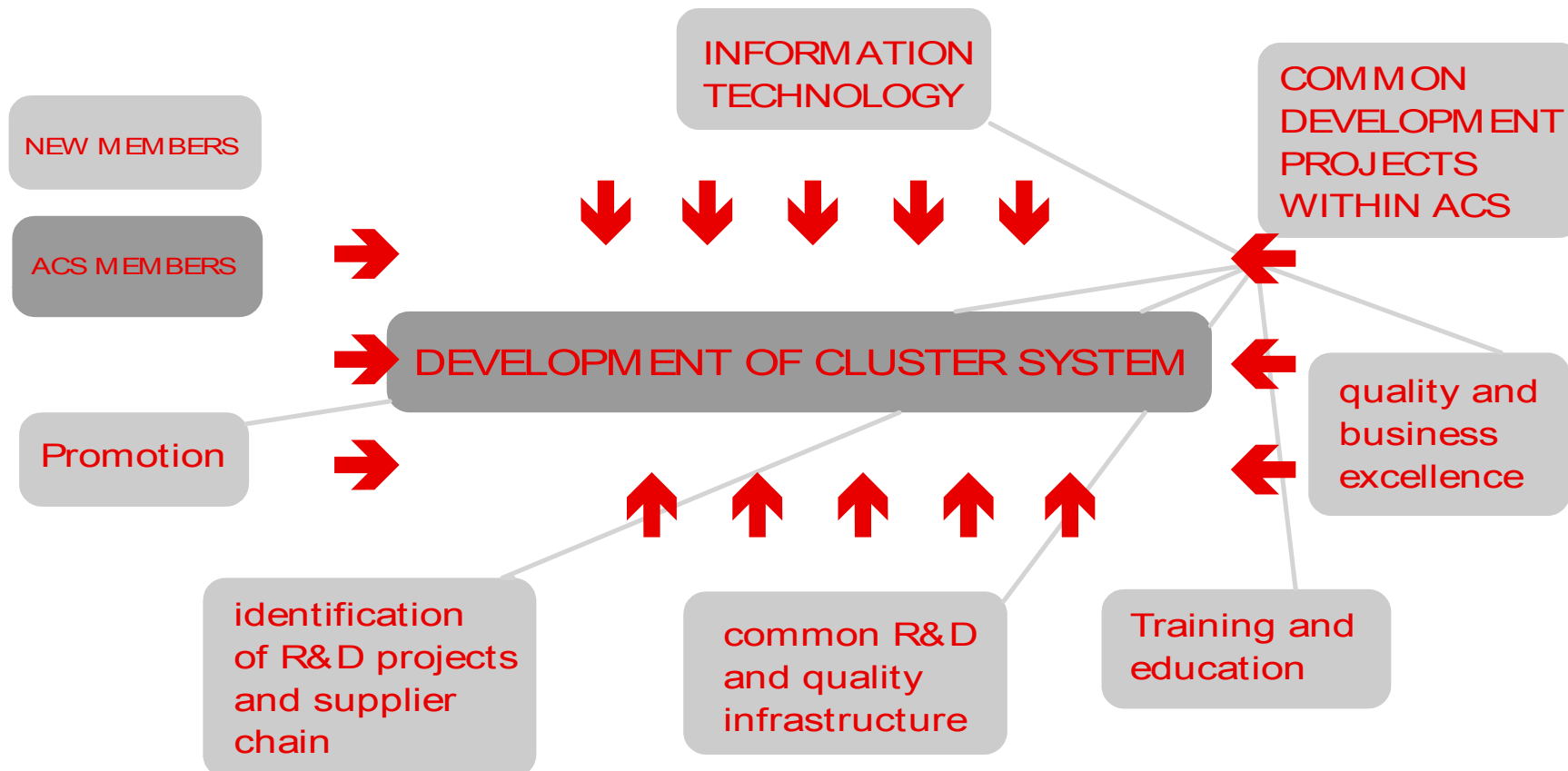


- To create a network connection, the main goal of which would be efficient use of individual and common competence
- To be a partner to global vehicle producers & system suppliers

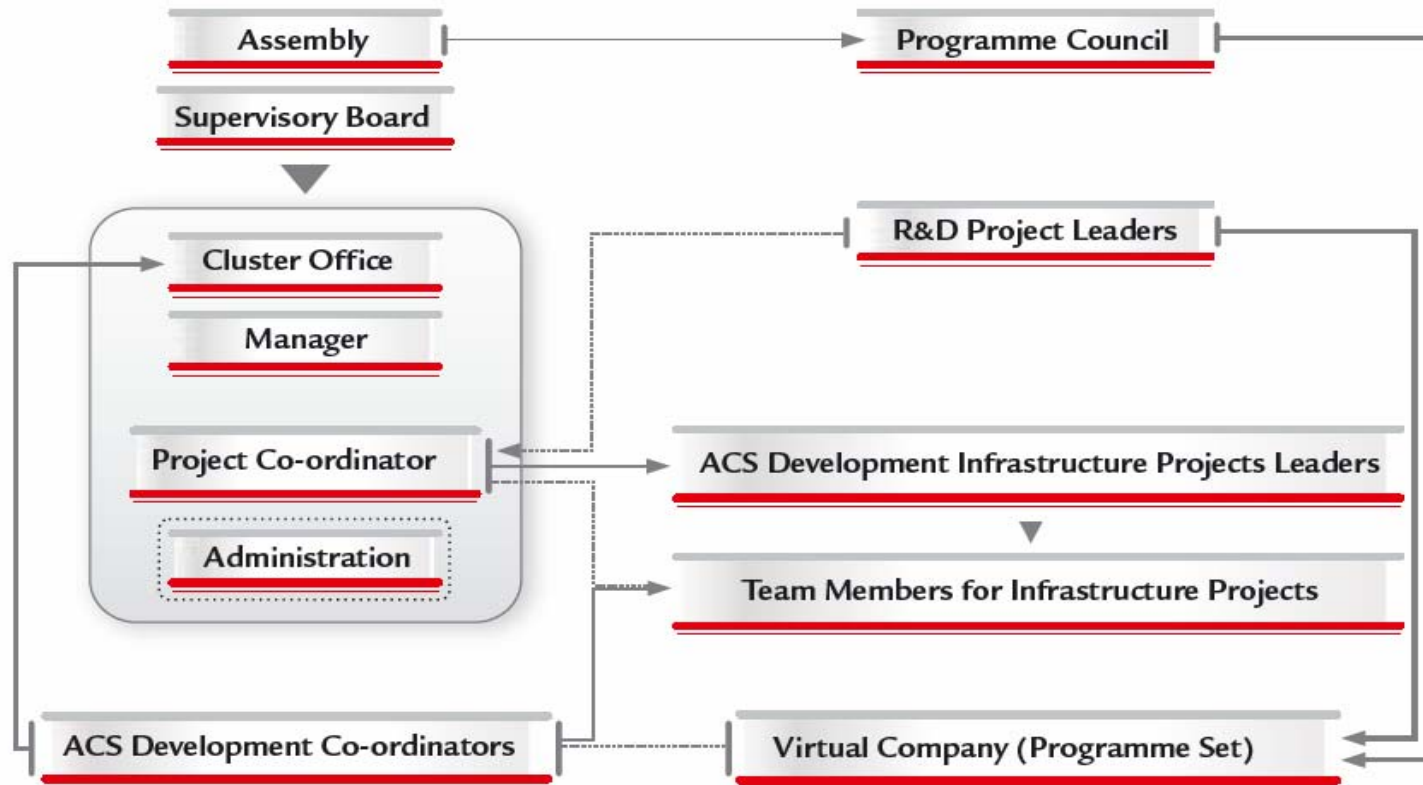
## ACS

	1995	2000	2005
Integrated partner			
Suppliers of systems and modules			
Component suppliers			
Comodity suppliers			











## ***Multiplication of Synergies***

- *Common marketing and promotion*
- *Boosting innovation and research*
- *Qualification programs on automotive education and training*
- *Quality and business excellence*
- *Members support*

## Mission and Vision



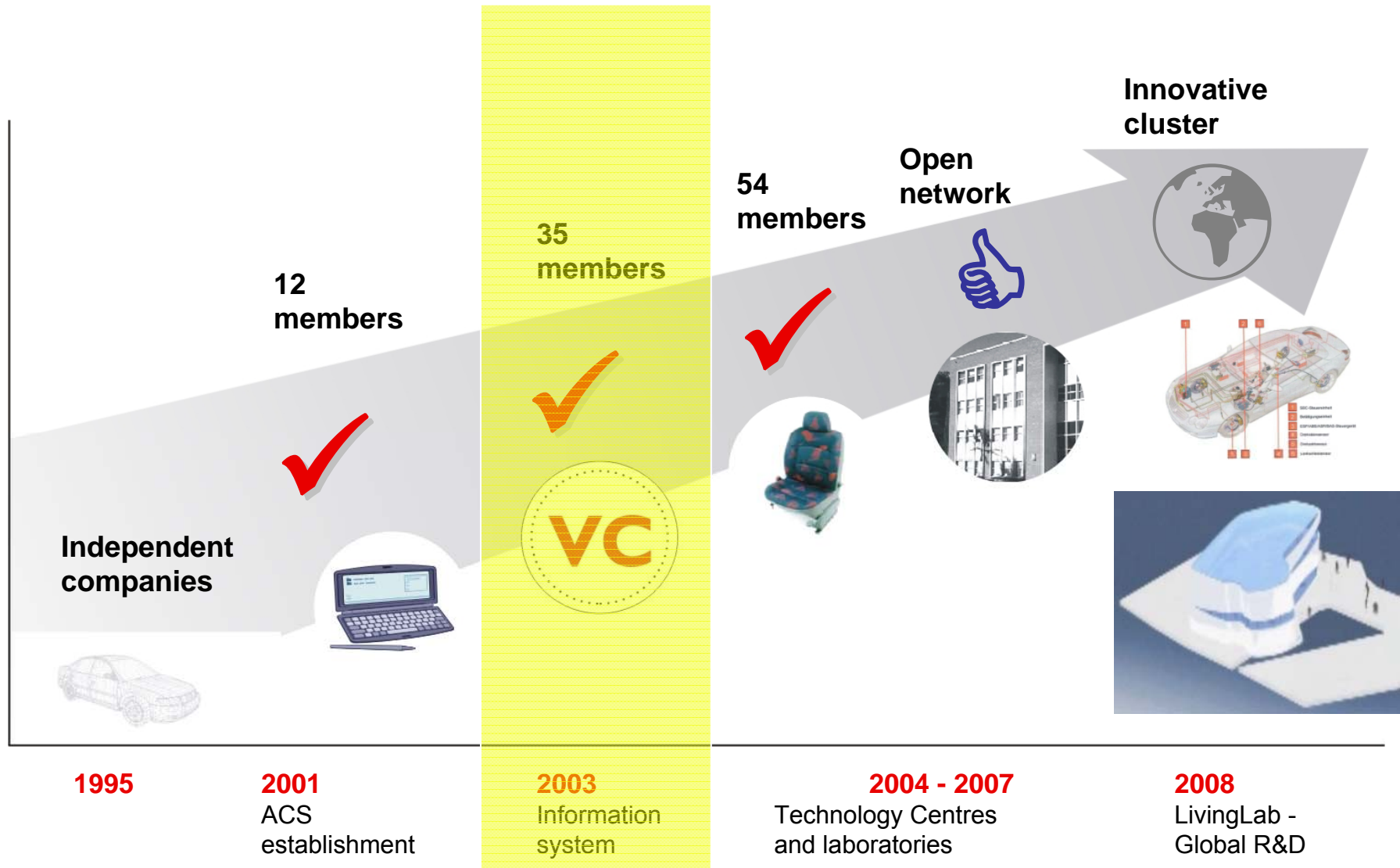
➤ *ACS is a business association uniting Slovenian automotive suppliers*

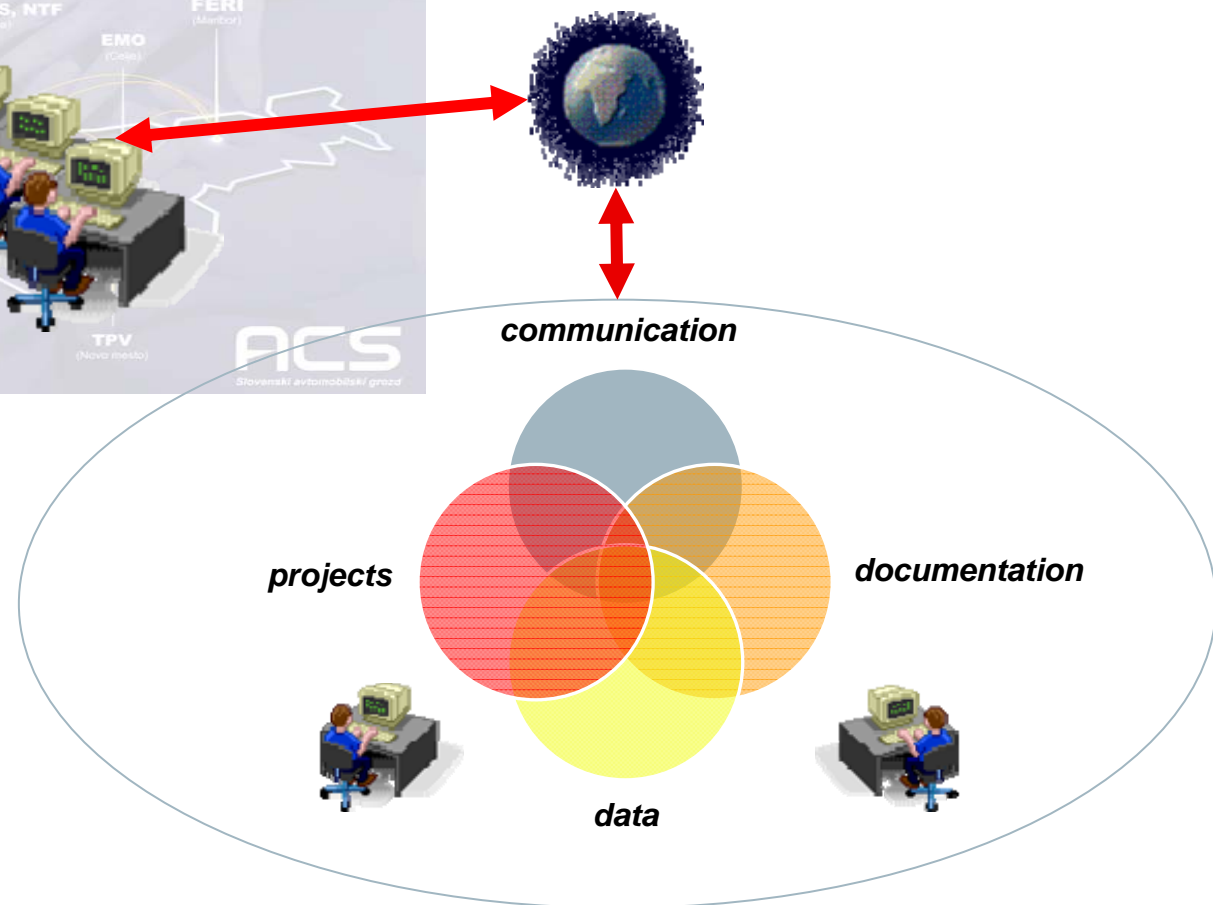
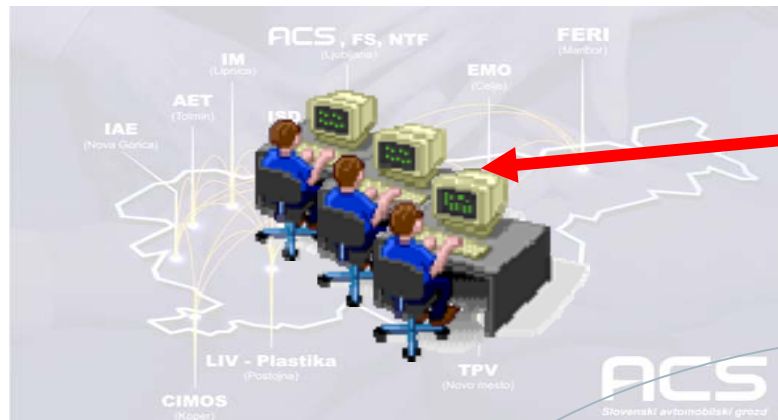
➤ *We will be a reliable and intensive R&D network of automotive suppliers to global vehicle producers on special segments with complex products*

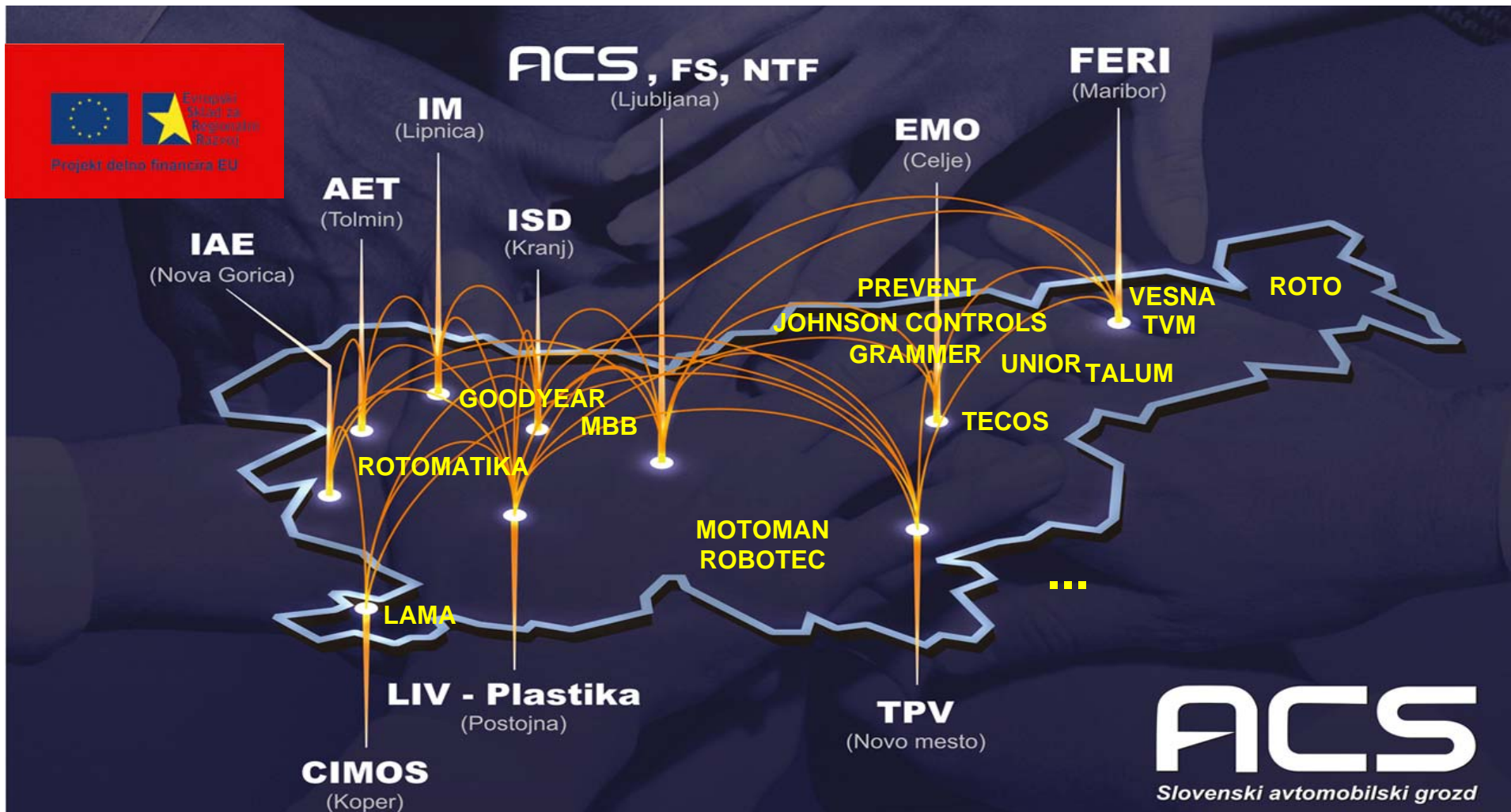


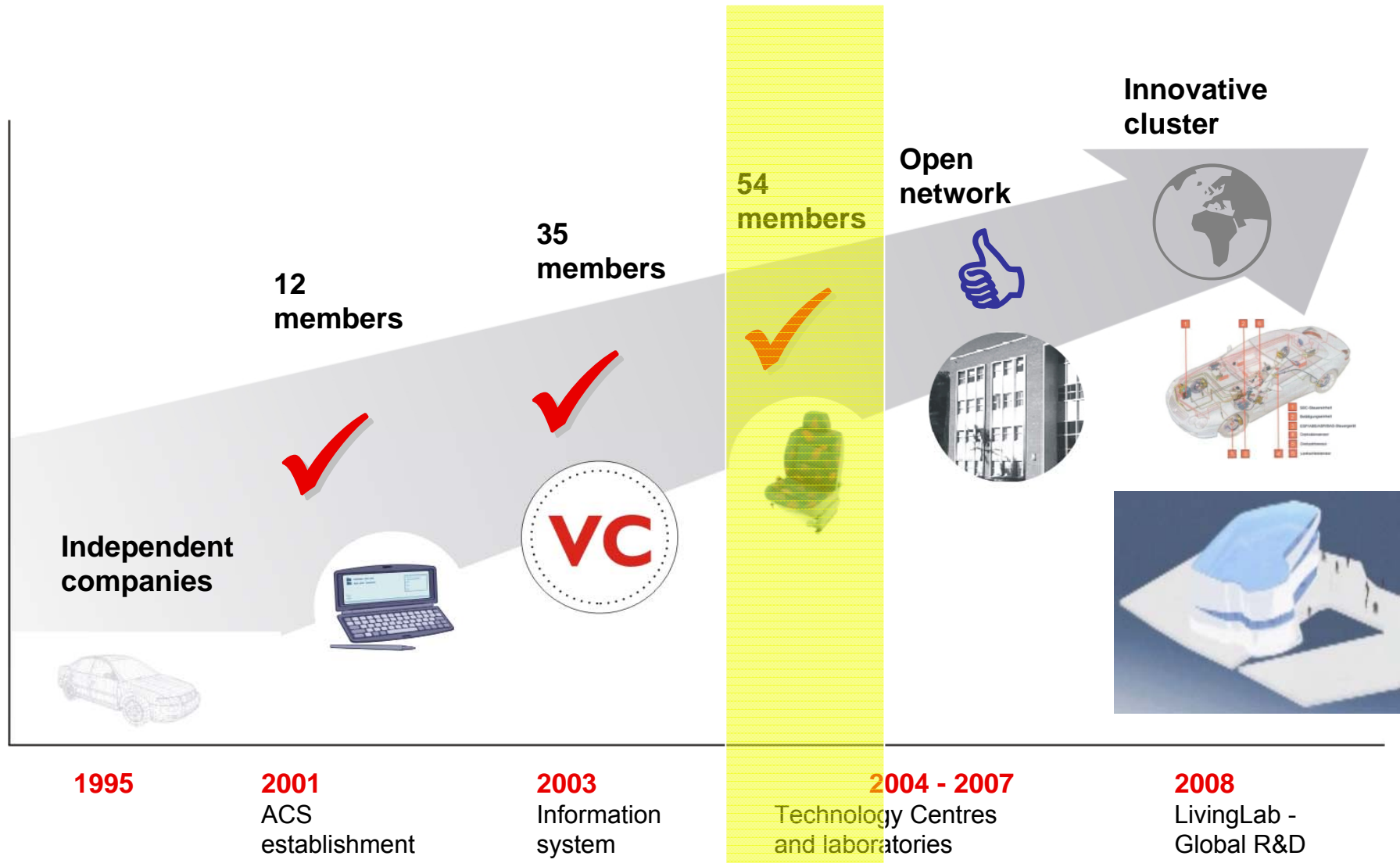
- ACS has 57 members, from that 50 companies and 7 R&D institutions.
- ACS members have 35.800 employees, from that 3.000 registered researchers.
- Sales of ACS members in 2005 exceeds 3 billion EUR, 80% of which comes from the export of goods and services to the EU and the rest of the world.



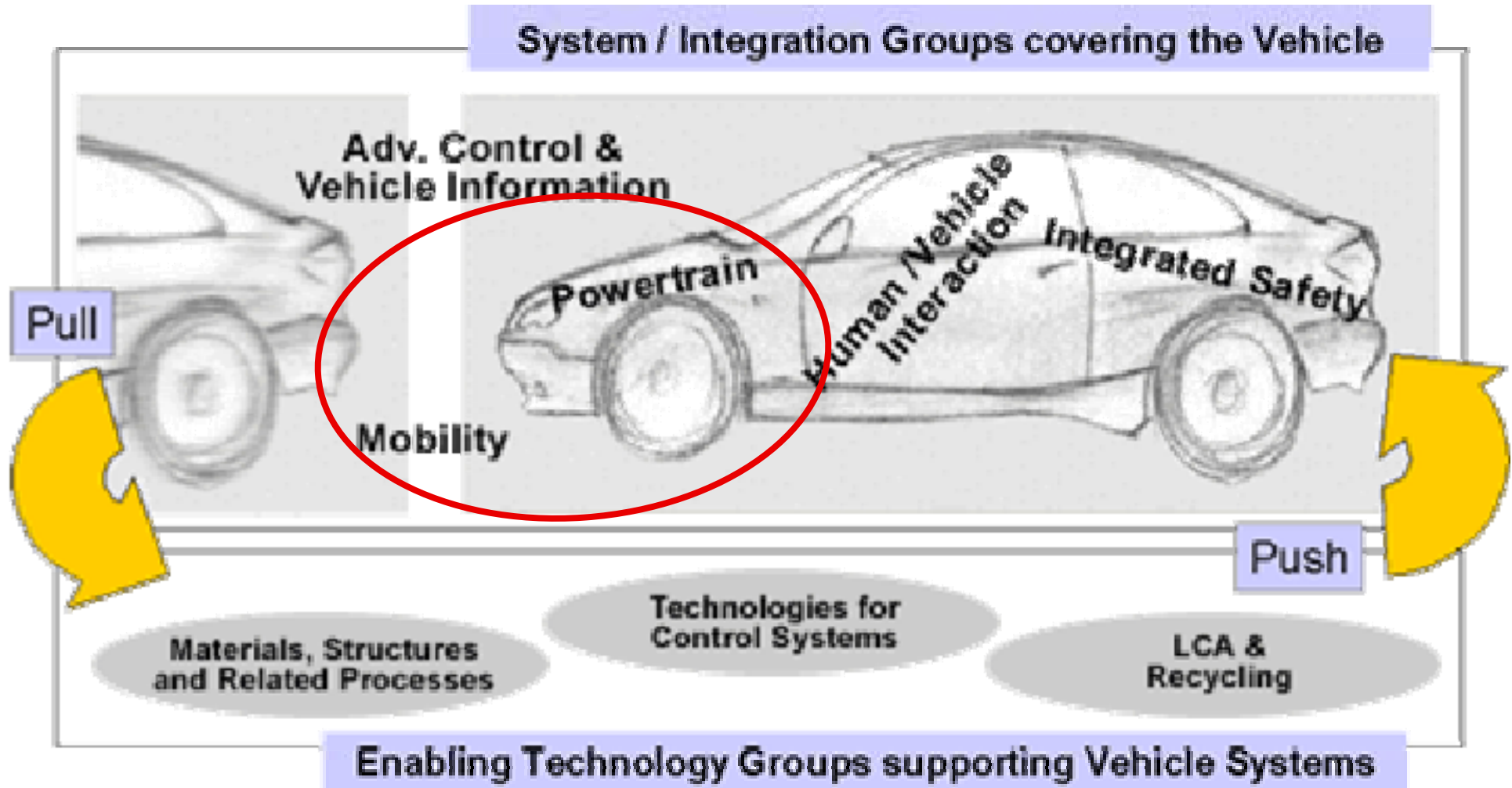


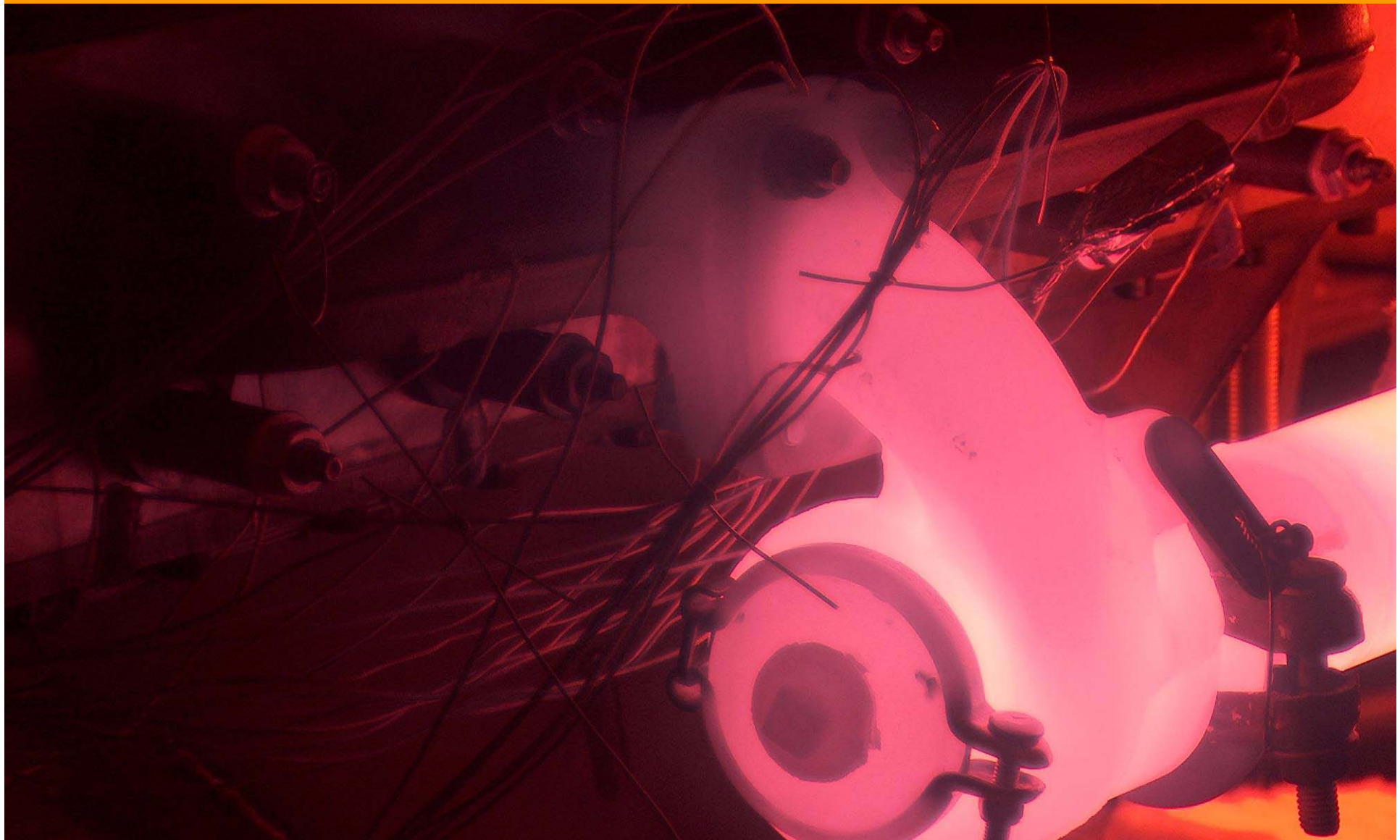


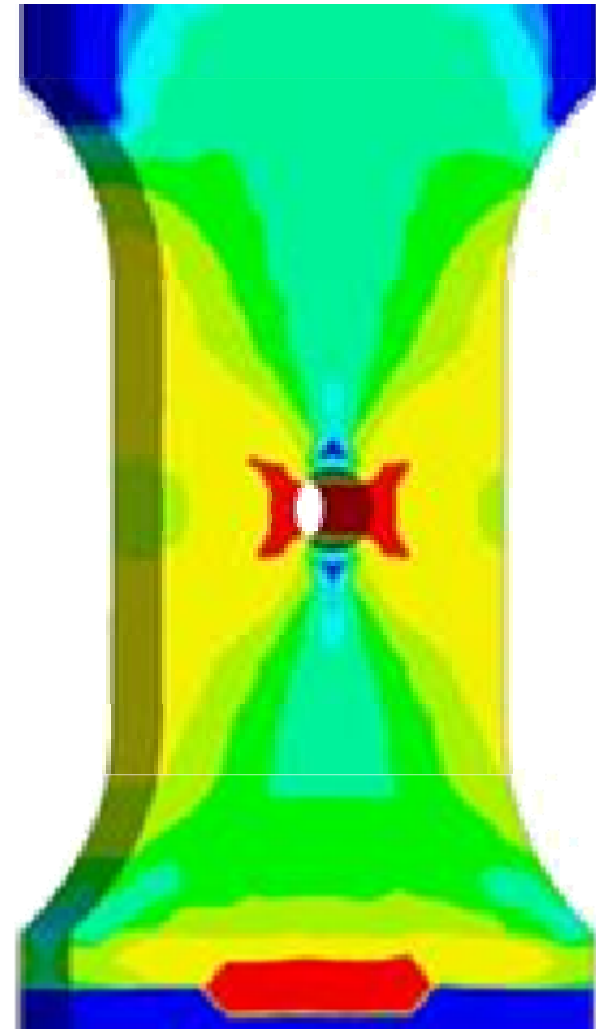
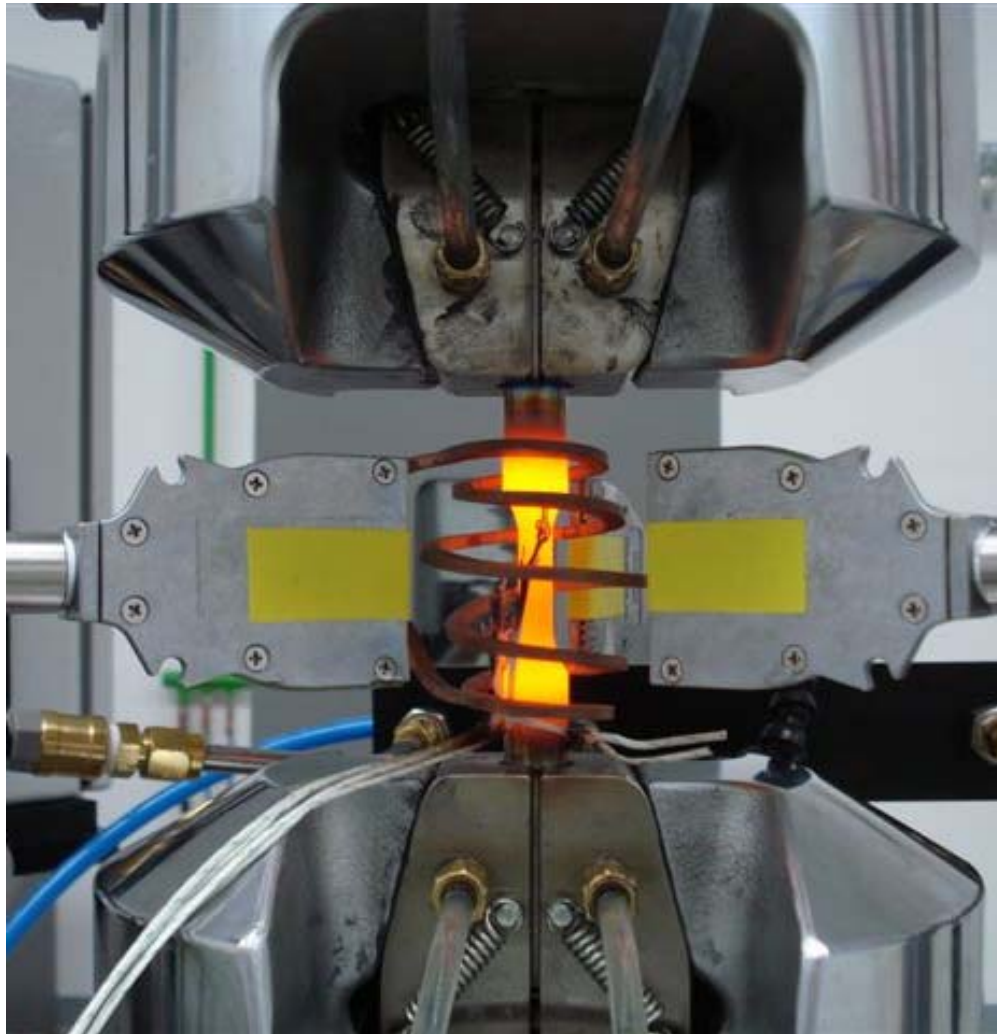




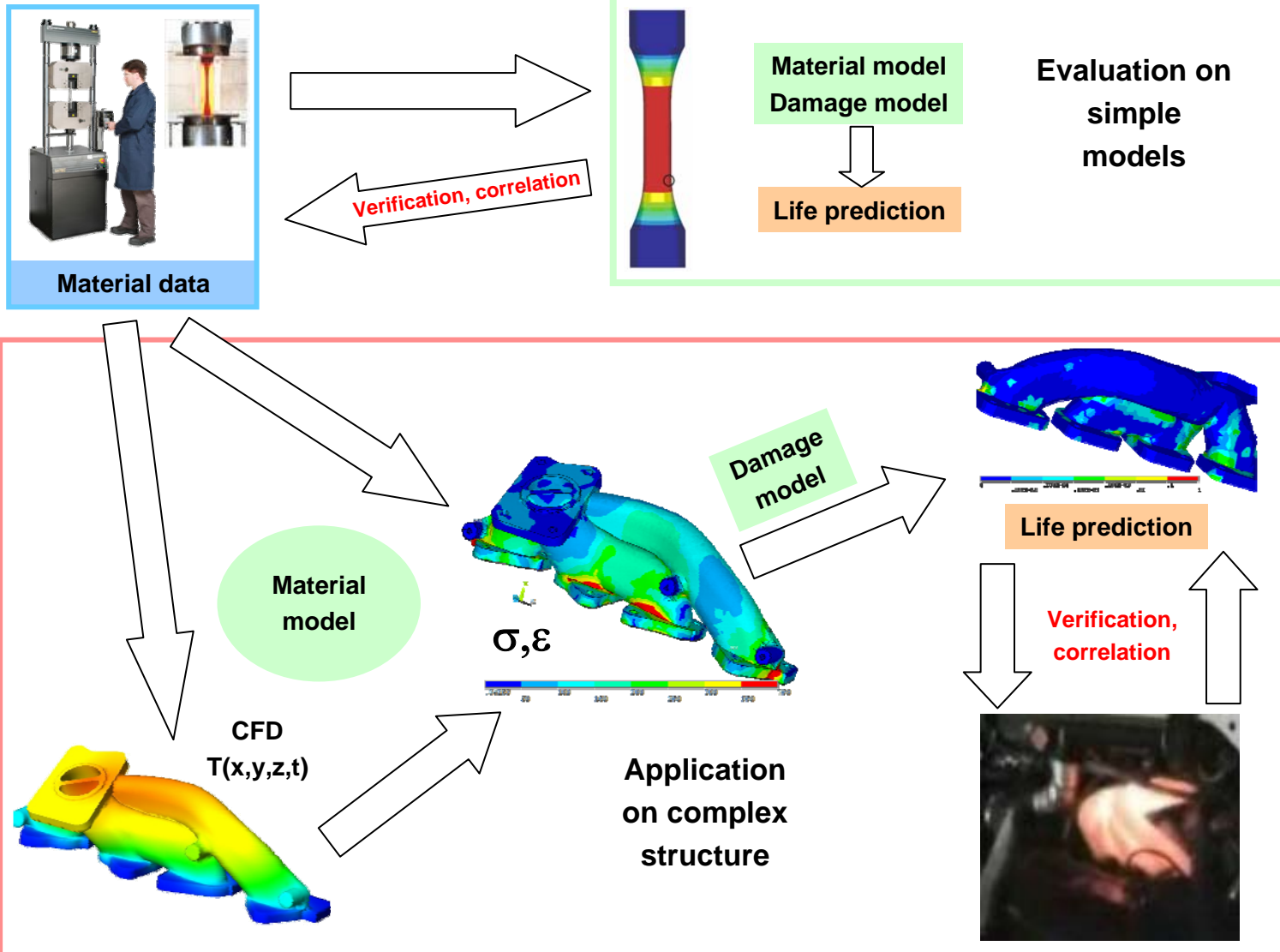


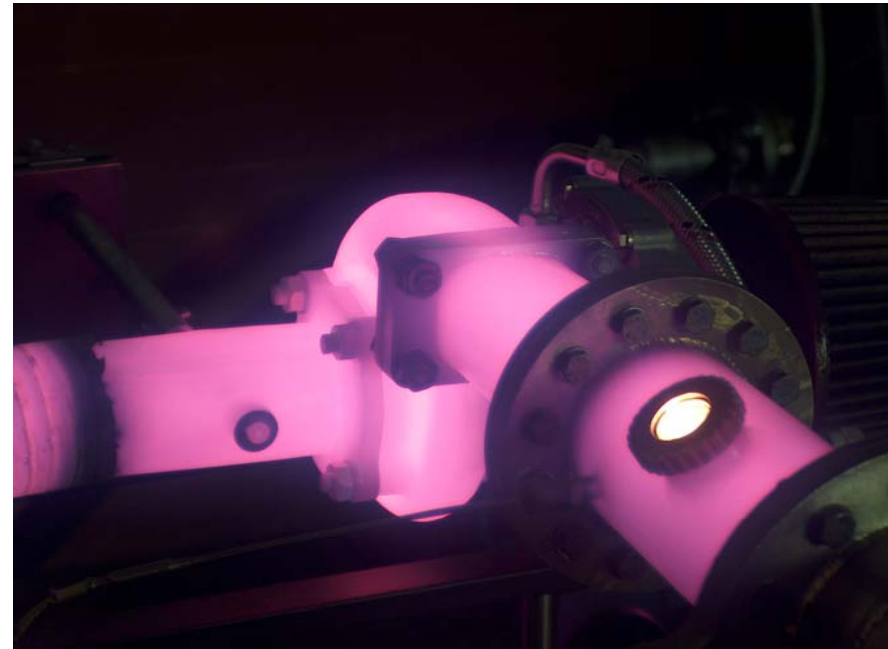
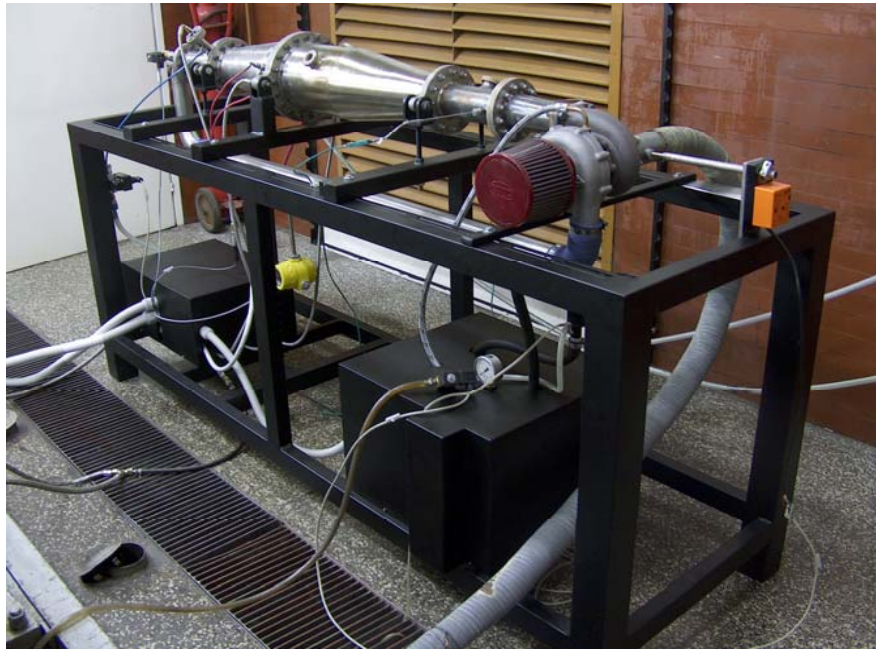












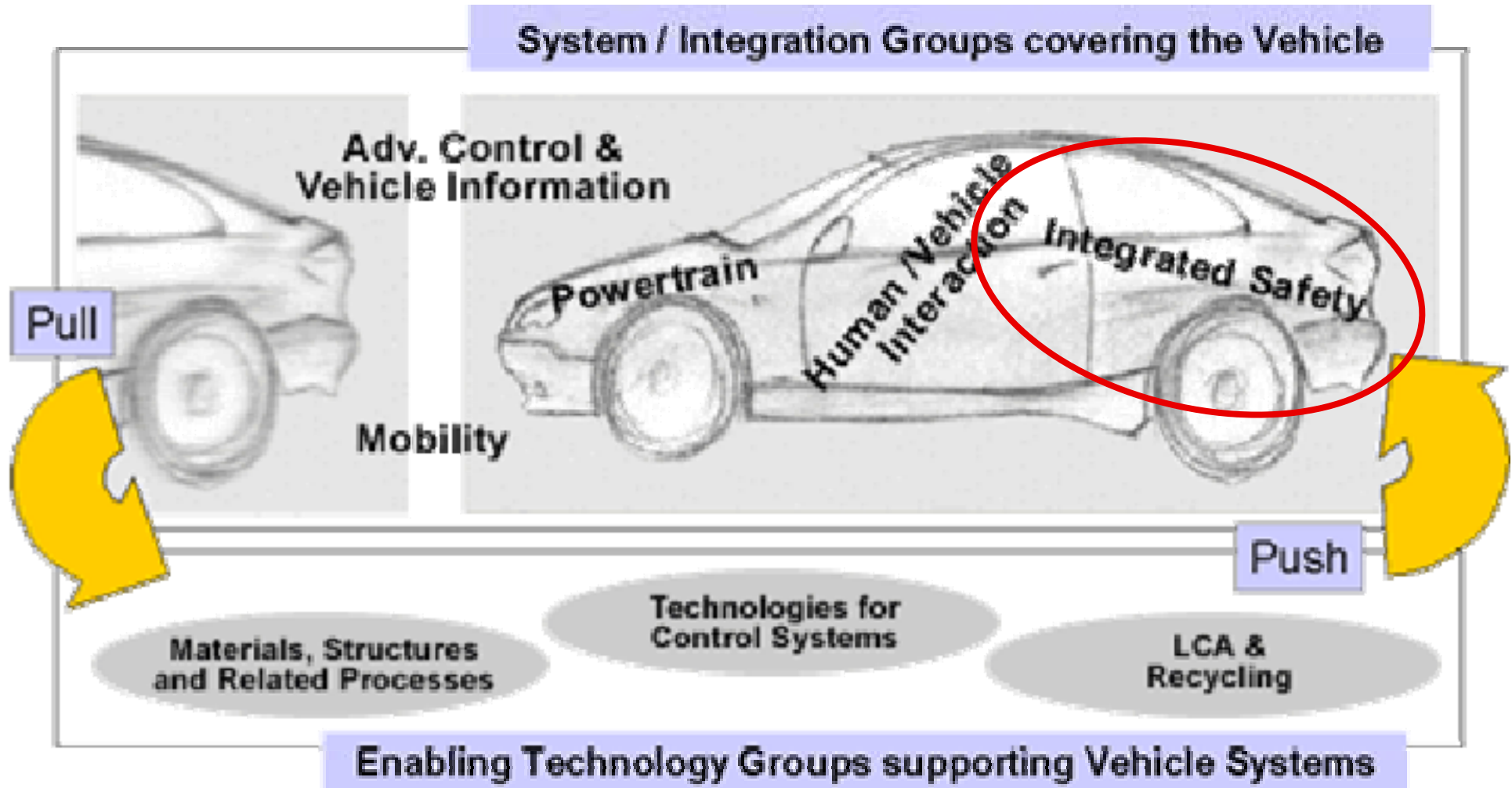
SiMoNi



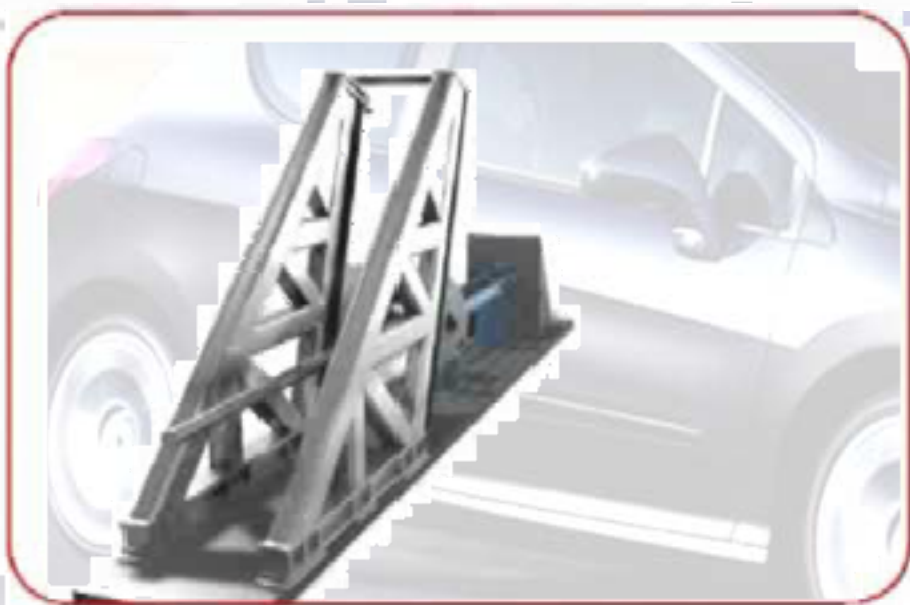
D5S



D2B







 **CIMOS**

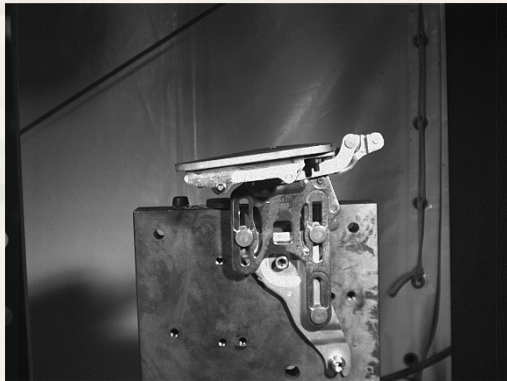




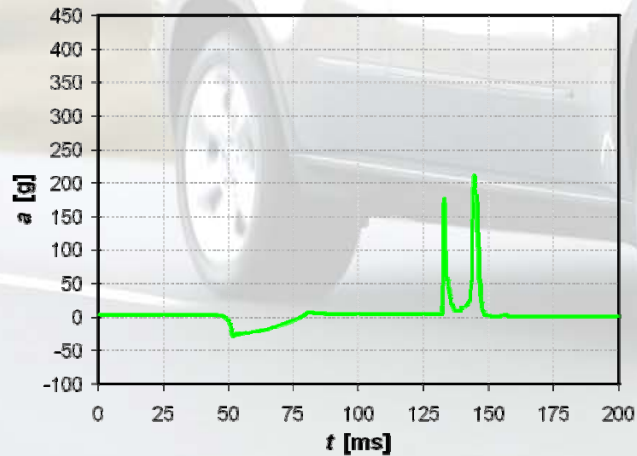


Specifications	System capacity
Pressure	200 bar
Maximum stroke	1000 mm
Maximum acceleration force	130 kN
Maximum brake force	200 kN
Maximum energy	85000 J
Maximum velocity	20 m/2
Maximum component mass	300 kg

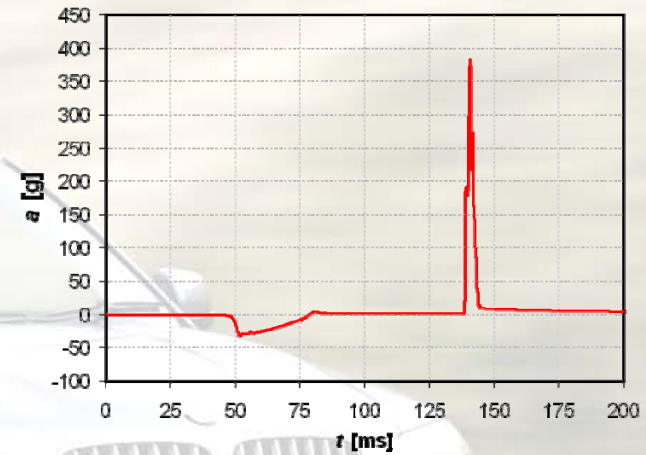
## SAFETY ENGINE COVER HINGE



HIC\* ≈ 240



## NORMAL ENGINE COVER HINGE



HIC\* ≈ 3700

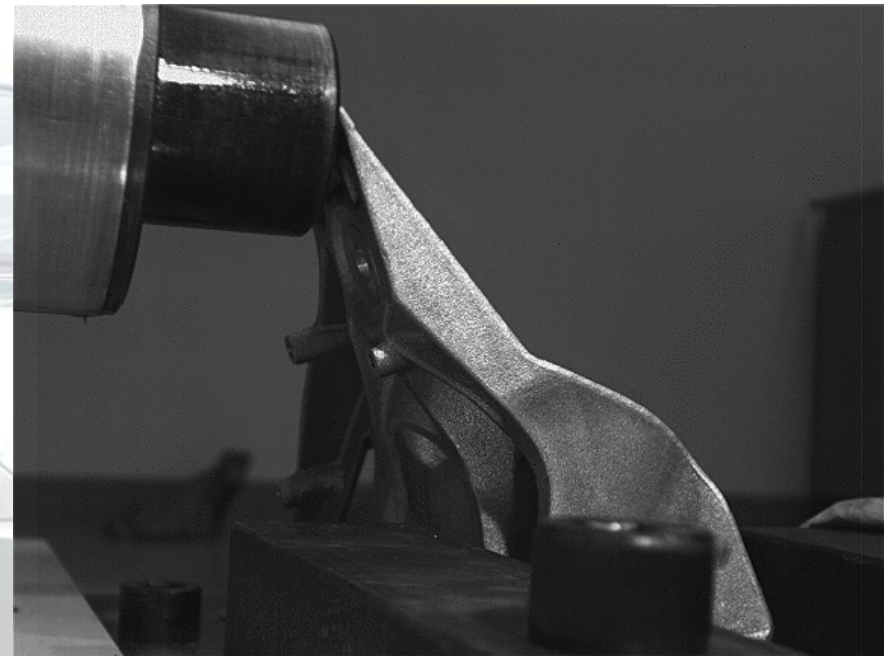
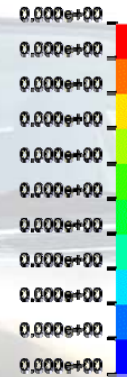


\*HIC = Head Injury Criterion, HIC > 1000 – critical Head Injury

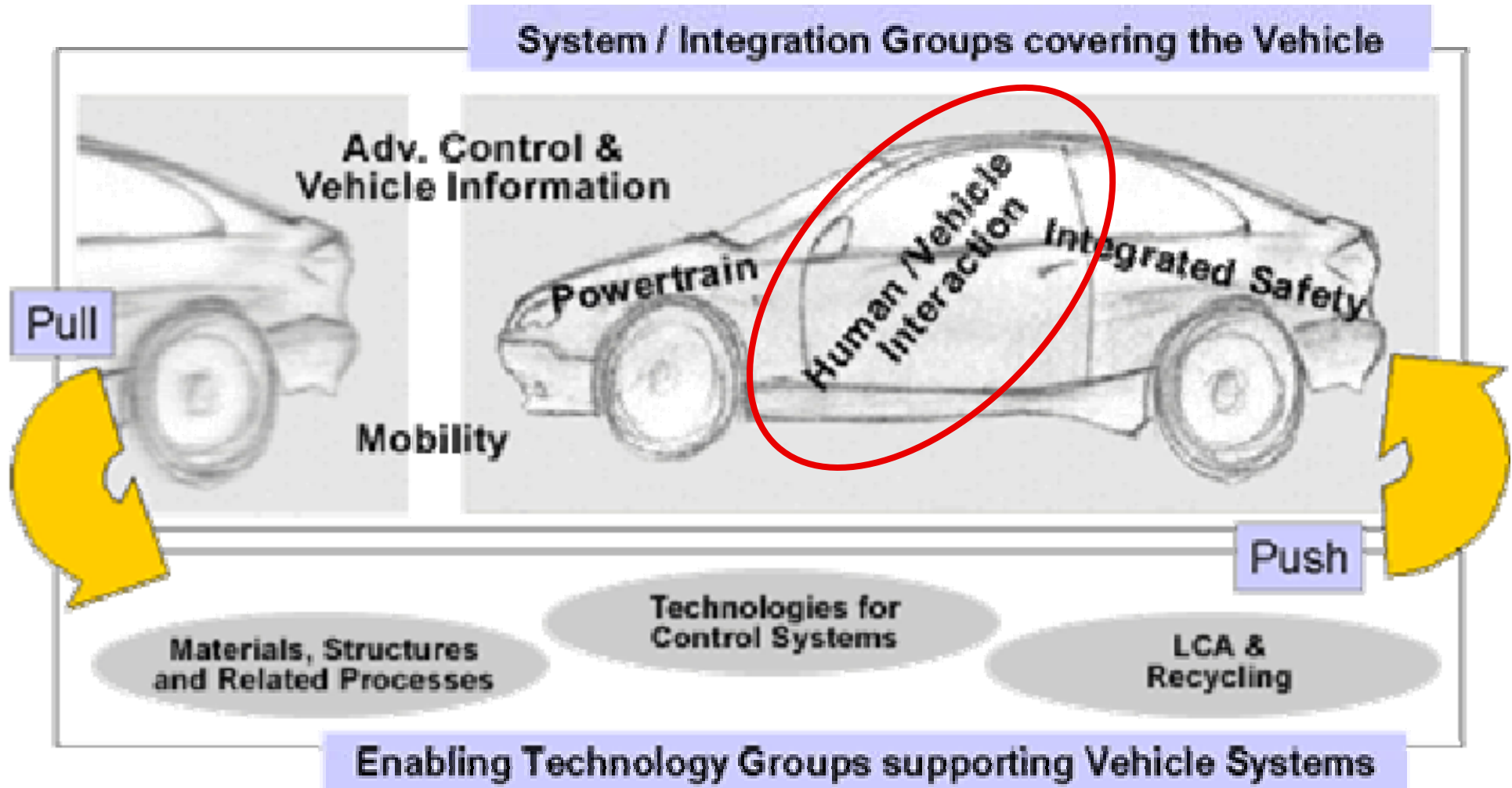
NOSILEC\_BMW\_E70\_N52\_REALNI\_MAT\_POBATAKI

Time = 0  
 Contours of Effective Plastic Strain  
 min=0, at elem# 1  
 max=0, at elem# 1

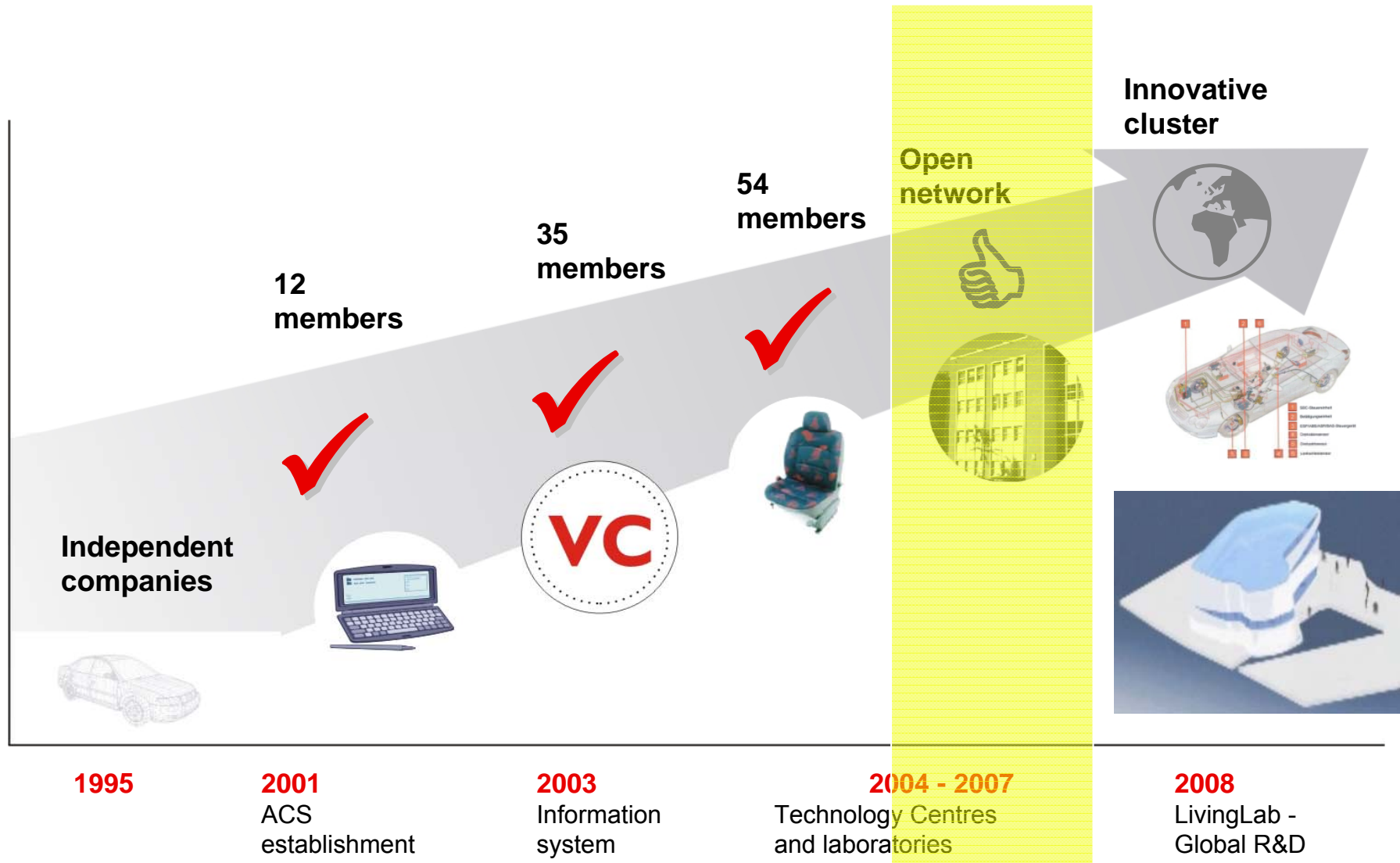
Fringe Levels



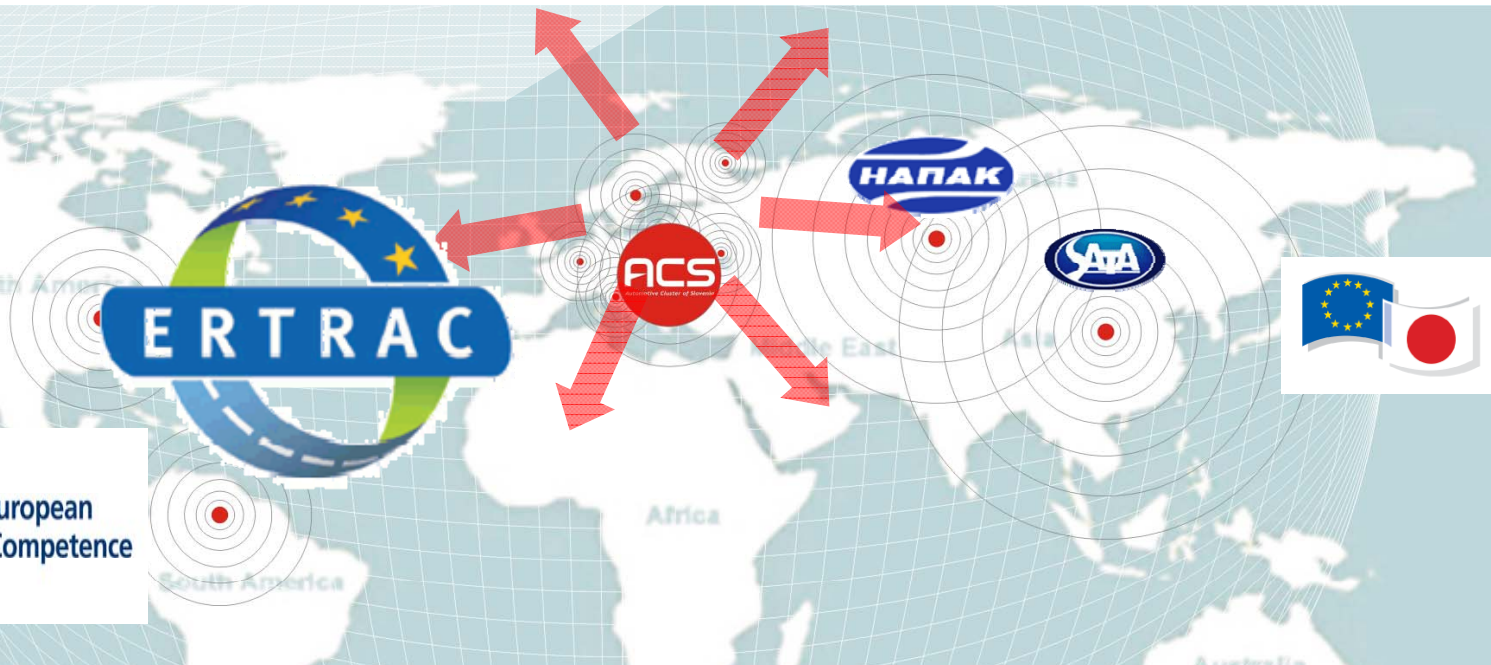




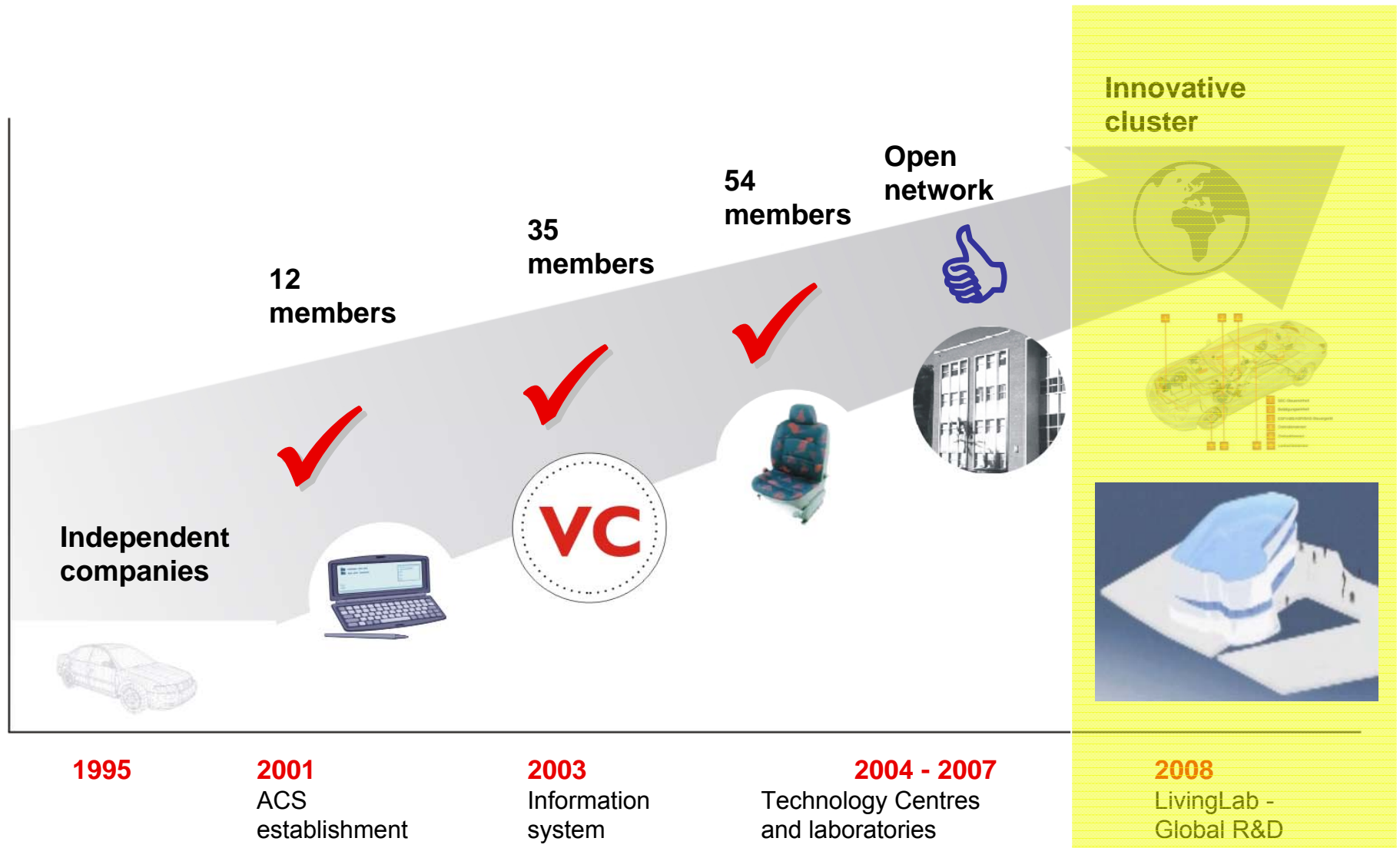




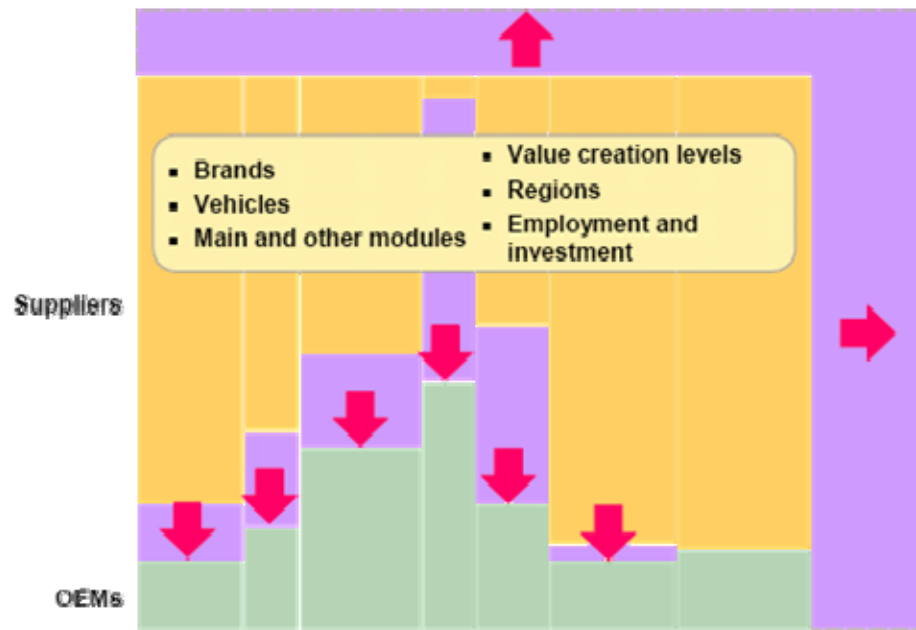




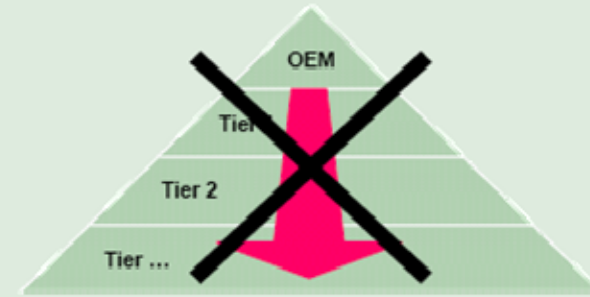




## Changes in the Value Creation System

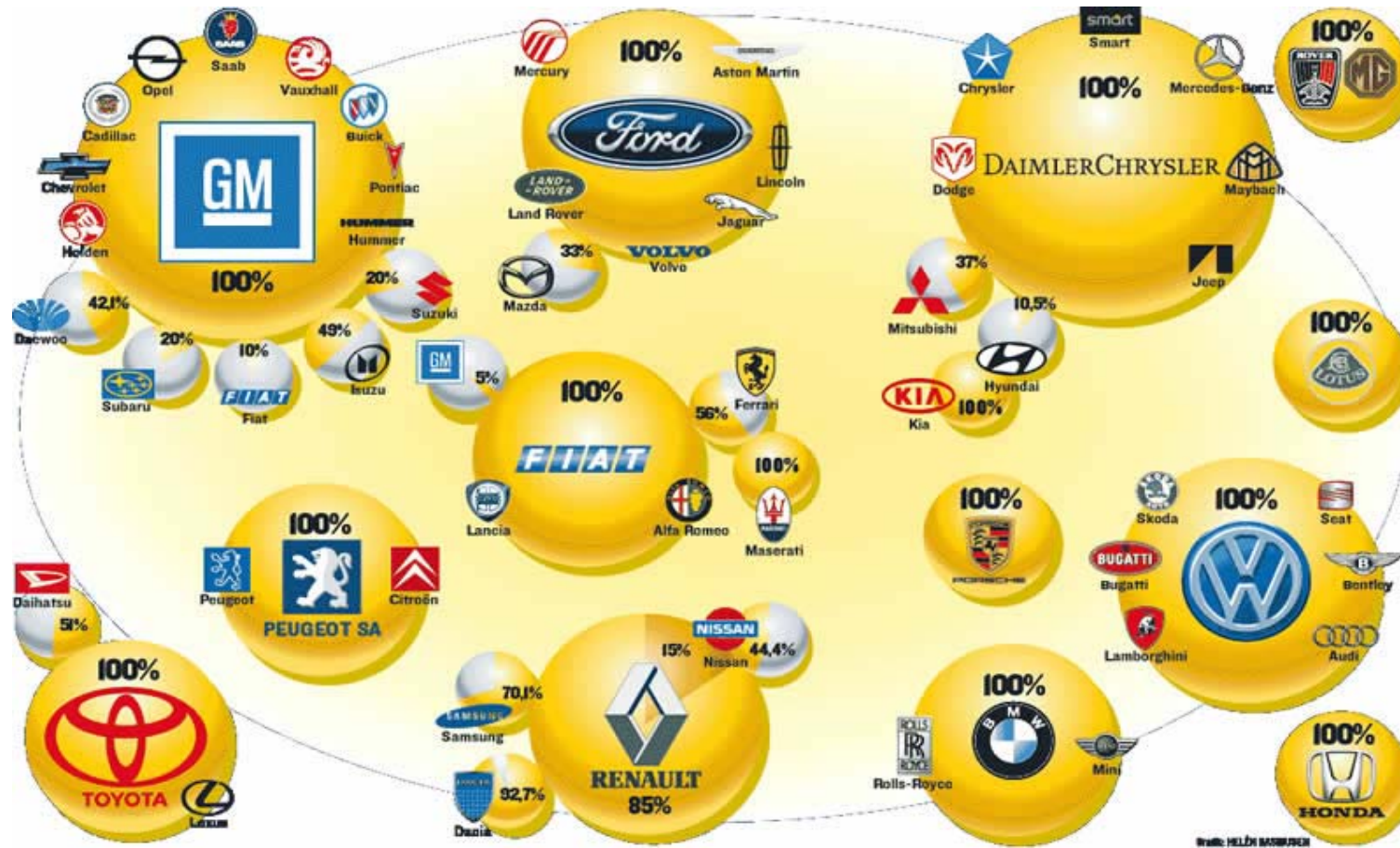


## Cooperation Today: Hierarchy



## Cooperation Tomorrow: Network





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