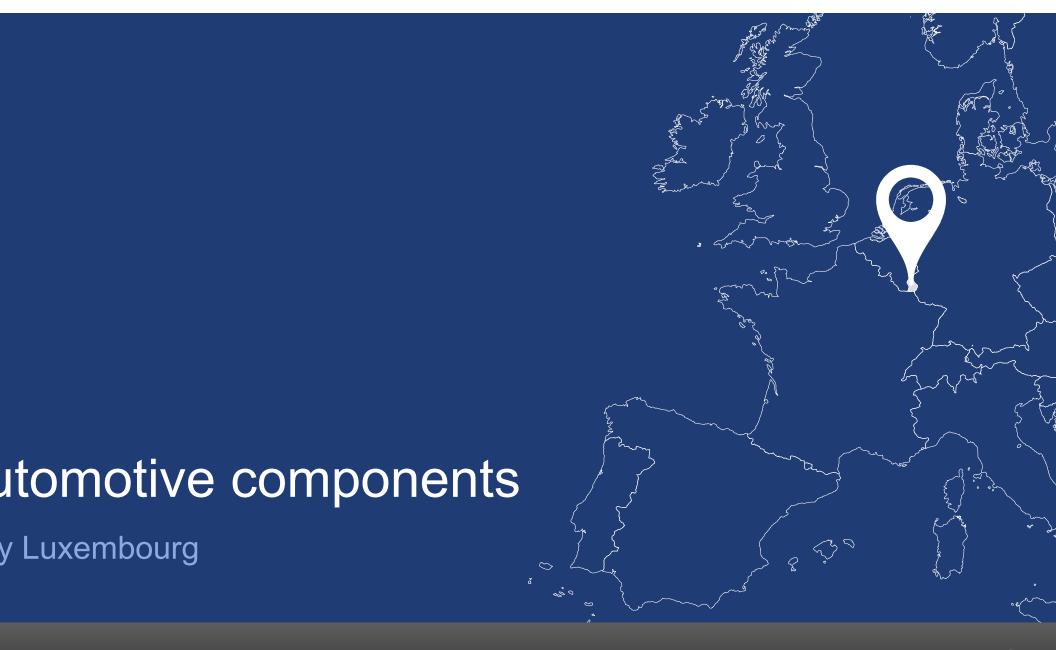
European Automotive Components Business

"Made in Luxembourg"







pean automotive component business Luxembourg?

ppe is considered as one of the global leaders in light vehicle elopment. European OEM's cover more than 1/3rd of the global light cle production...

pean OEM's take sourcing decisions at the European development tions: Munich, Stuttgart, Frankfurt (Russelsheim), Cologne, Wolfsburg, Birmingham, Gothenburg, Paris....

ause of national economical interests, cultural perception and language es, some non-European TIER1 component suppliers have deliberately ed their European sales and R&D centre in the BENELUX: "neutral" and on Europe's very competitive automotive battlefield.....



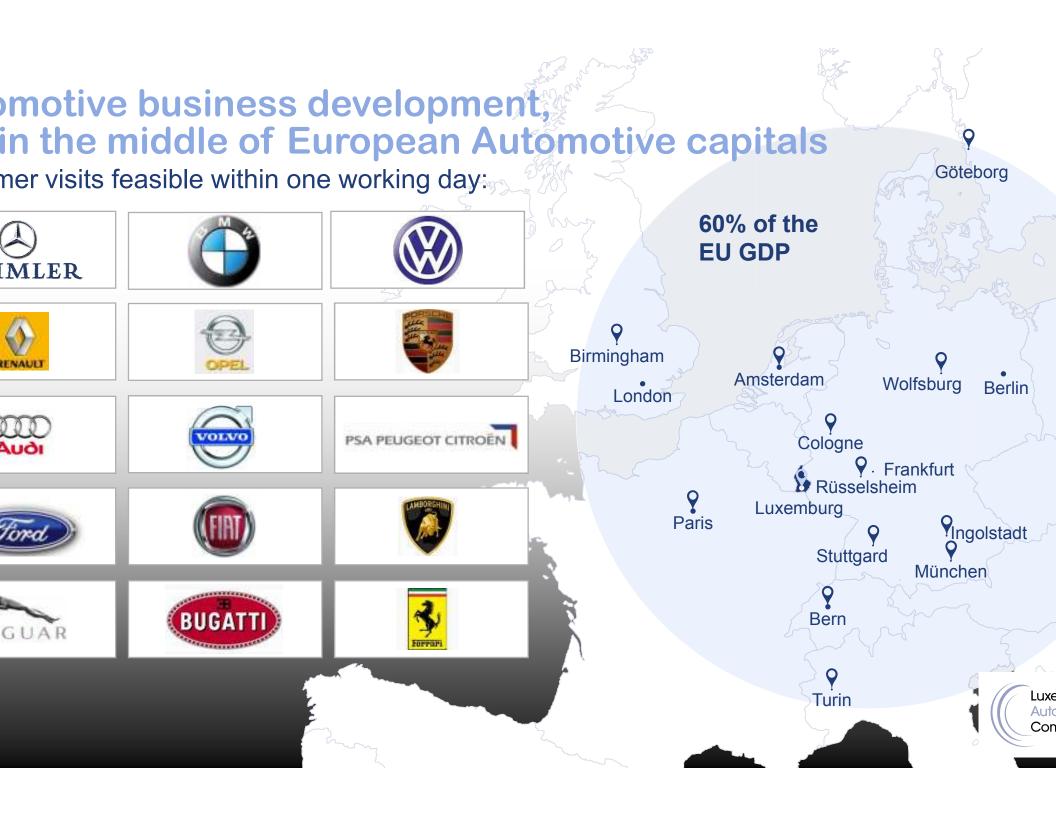


pean automotive component business Luxembourg?

n European Sales and R&D centre in Luxembourg, just in the middle of the European automotive call providing top quality, state of the art engineering, combined with the language and cultural skills near for developing business "all over Europe".

ou'll never walk alone... members of the Luxembourg Automotive Cluster (LAC) like Delphi, Goodye aval Europe, Post Telecom, Luxcontrol, Elth (CEBI group) and many others, have developed an unic coperation model supporting open innovation, business development, joint training & education prograd operational excellence!







ntering the European market...

ct-based decision



pe's position in Global light vehicle PRODUCTION

IHS)

- Global light vehicle production 2014 is expected to close at 88M units (vehicles)
- China is the global leader in vehicle production with 23M units (2014)
- Followed by Europe (20M) and North America (17M)
- In the period 2015 2020, global light vehicle production is expected to grofrom 88M to 104M units, in total 16M units (19%)
- Strongest growth is expected to be generated by China (8M)
- Followed by South Asia (4M) and Europe (3M)
- Japan/Korea are expected to reduce their production output (-1.5M)

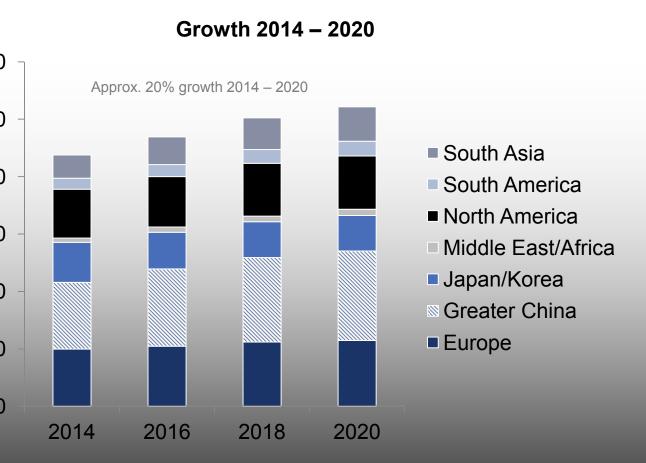
Europe is second in vehicle production (after China) and will remain this position in the near future (2015 – 2020)



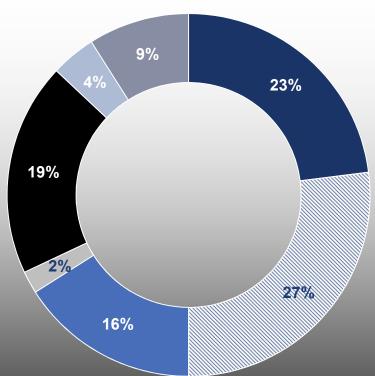


al light vehicle PRODUCTION in detail

IHS)



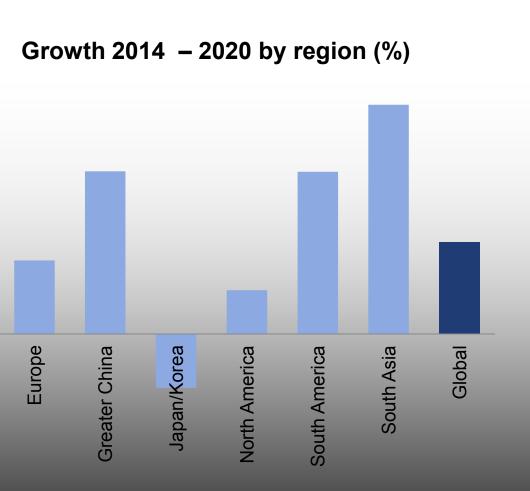
2014 global production by region

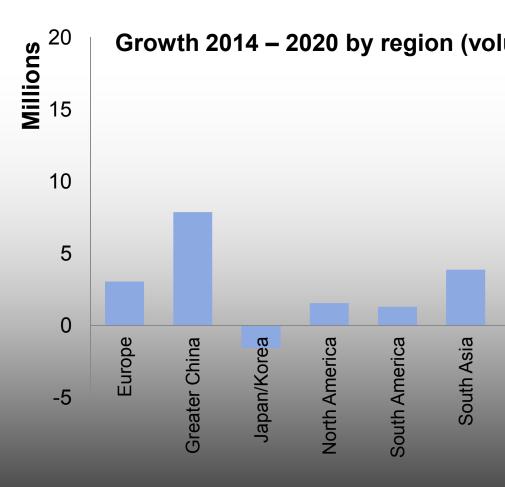




wth 2014 - 2020 by PRODUCTION region

IHS)







pe's position in light vehicle DEVELOPMENT

IHS)

- Approx. 80% of the globally produced vehicles are developed in Japan, Kor and Europe
- 40M units are developed by Japanese and Korean OEM's (44%)
- 31M units are developed in Europe (34%)
- 6M of 16M global growth 2014 2020 is covered by Japanese/Korean OEN
- 5M of the global growth is covered by European OEM's, 3M by Chinese OEM's
- North American OEM's are expected to develop 1M units less in 2020

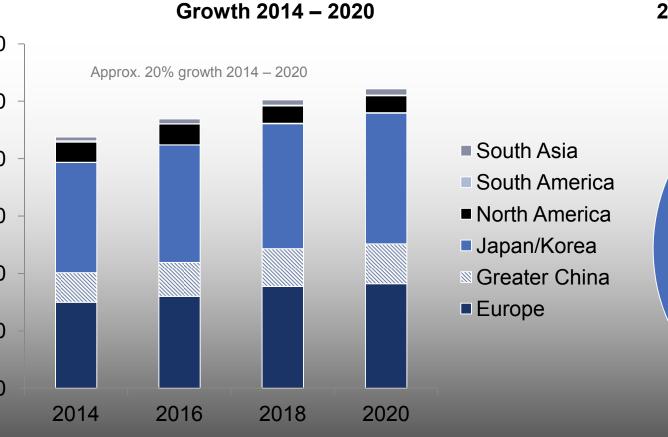


Europe is second in vehicle development (after Korea/Japan) and will remain this position in the near full (2015 – 2020)

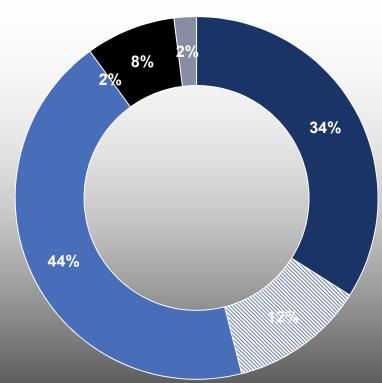


t vehicle **DEVELOPMENT** in detail

IHS)



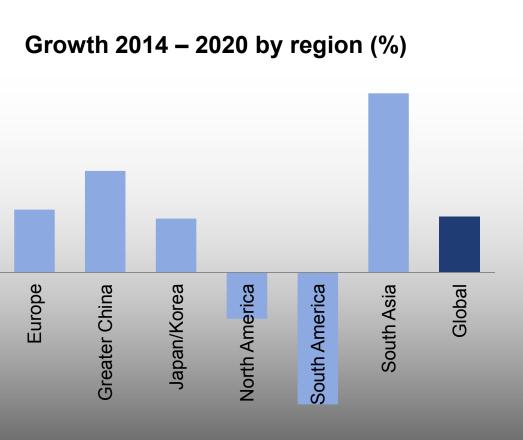
2014 global development by region

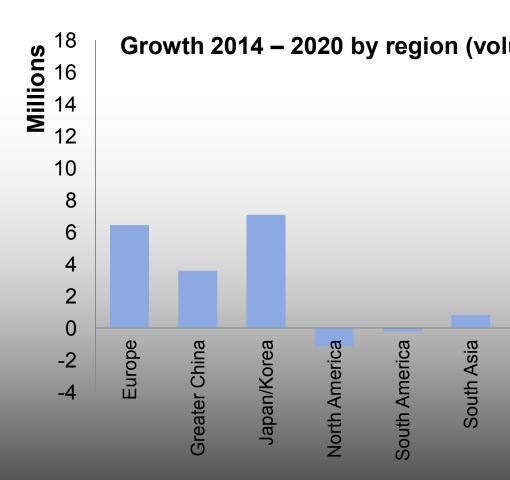




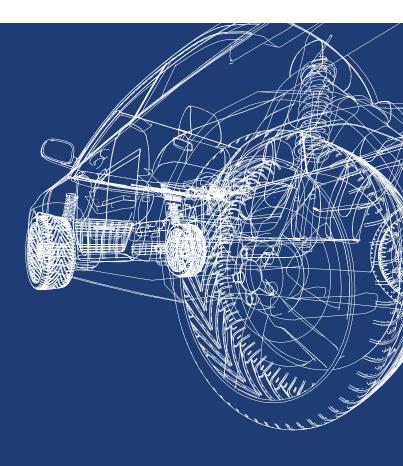
wth 2014 – 2020 by DEVELOPMENT region

IHS)









some more good reasons for entering the opean component market...

chnology!





BMW i8 plugged-in hybrid



2014 Porsche 918 plugged-in hybrid



2014 Audi A3 e-tron



lercedes-Benz GLA



2014 Mercedes-Benz C-class



2014 Porsche Macan



nology leadership and opportunities

Technology/application trends	European Leadership	European Opportunity	Cooperation partners in Luxembourg
Infotainment, connectivity, HMI			DELPHI HITC SENSE FOR INNOVATION
Passive & active safety, ADAS			DELPHI GOOD YEAR Sense for innovation
Weight reduction, lightweight materials			ArcelorMittal DEC°
Fuel efficiency, emission control, alternative fuels			** ROTAREX Cebi GOOD YEAR
Green technologies, e-mobility, nybrid technology			UNIVERSITÉ DU LUXEMBOURG





ovation and R&D "made in Luxembourg"

ranced material development, fuel management, emission control, active ar sive safety, sensing systems, fuel venting systems, lightweight material elopment, vehicle connectivity... and much more

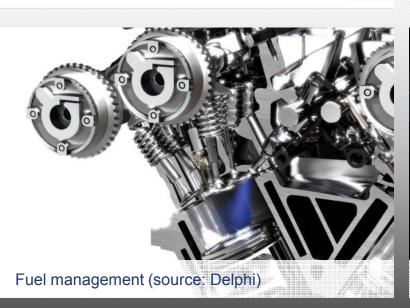








ght materials (source ArcelorMittal)





ic research driving innovation and R&D

researchers (full-time equivalent) – 52% in companies

R&D personnel (full-time equivalent) – 64% in companies

actors:

niversity of Luxembourg

ublic Research Centres

ational Research Fund

research fields

aterial technologies

nvironment

omedicina





oal leaders in Tier1 and Tier2 position found their way uxembourg



ore than 30 automotive component service suppliers in total

ElectroEngine IEE ux

ELTH (CEBI Group)

KYMCO

Eurocomposites

Luxcontrol

Eurofoil

POST Luxembourg

tomotive **FANUC**

littal

ems

Raval Europe

Faurecia

Rotarex Automotive

Goodyear

SNCH

Cie **Guardian Automotive**

Tarkett

Hitec

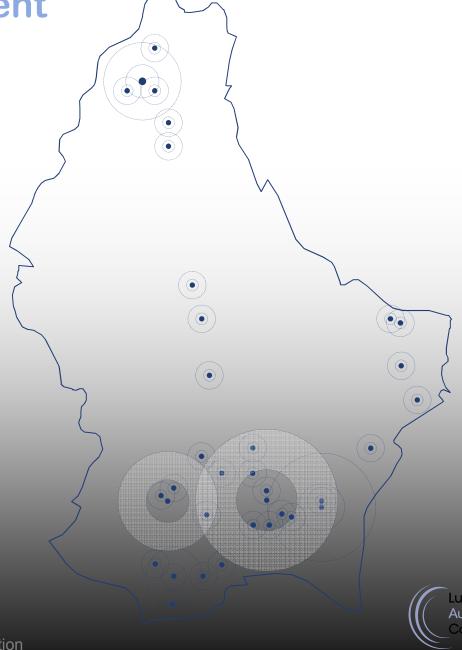
Technofibres

HUSKY

Textilcord

Hydro Aluminium

TÜV Rheinland



embourg Automotive Components cluster

bourg Automotive Component business:

e than 1,5 billion € sales turnover

nest per capita automotive components turnover in EU

e than 10.000 employees in total

e than 2.000 professionals in R&D, predominantly engineers and scientists from German rersities, German OEM's and Tier1 suppliers

ort to 5 continents





embourg Automotive Component cluster

itly five "Flagship projects" under development

1. Automotive Campus

2. Competence mapping

3. Operational excellence

4. Training, education & recruitment services

5. Business development





motive campus project under development

own for automotive experts and business incubation







LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG











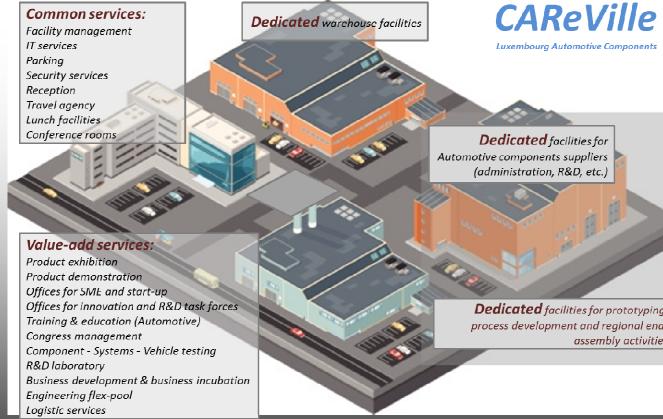
















motive component business "made in Luxembourg"

ke aways

pe is expected to remain leading position in light vehicle development

inology leadership in some area's like ADAS and fuel efficiency, but also offering technology opportu fotainment, e-drive and hybrid technology

embourg is considered as key-location for an European headquarters

ust in the middle of the European Automotive capitals

ulti lingual and multicultural business environment

op quality, state of the art automotive engineering

trong focus on innovation and R&D, "guided" access to national and European funding

utomotive cluster and CAReVille: synergy potential and shared knowledge base



oost Ortjens

uster Manager

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Thank you! Questions and answers

e Luxembourg Automotive Components cluster is powered by:



