

Engineering Services & System Integration – Group (ESSI) Engineering Center Steyr GmbH & Co KG (ECS)

Dedicated for KULI User Meeting Shanghai 2008

MAGNA's Product & Engineering Capabilities





Closures

- Closing Systems
- · Door Modules
- ·Window Regulator Systems
- · Electromechanical Drives



Electronics

- Driver Assistance & Safety Systems
- ·Body Electronics Powertrain



Roof Systems

- · Softtops
- · Hardtops
- ·Retractable Steel Tops
- ·Roof Modules



Seating

- · Seat Systems & Components
- ·Headrests & Armrests
- · Seating Hardware Systems



Vehicle Engineering & Assembly

- Vehicle Development
- Vehicle Production
- Comp., Modules & Tank Systems



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Powertrain

- •Engineering Services & System Integration
- ·Engine-, Transmission Comp.
- ·Axle, AWD/4x4 Sytems
- Mechatronics



Interiors

- · Compl. Interior Integration
- · Carpet & Interior Trim
- · Cockpit Systems
- ·Roof Lining Systems



Metalforming

- · Chassis Systems
- ·Shaping Technologies
- ·Body Systems



Exteriors

- •Front & Rear Modules
- · Sealing Systems
- ·Lighting systems
- · Side Sills



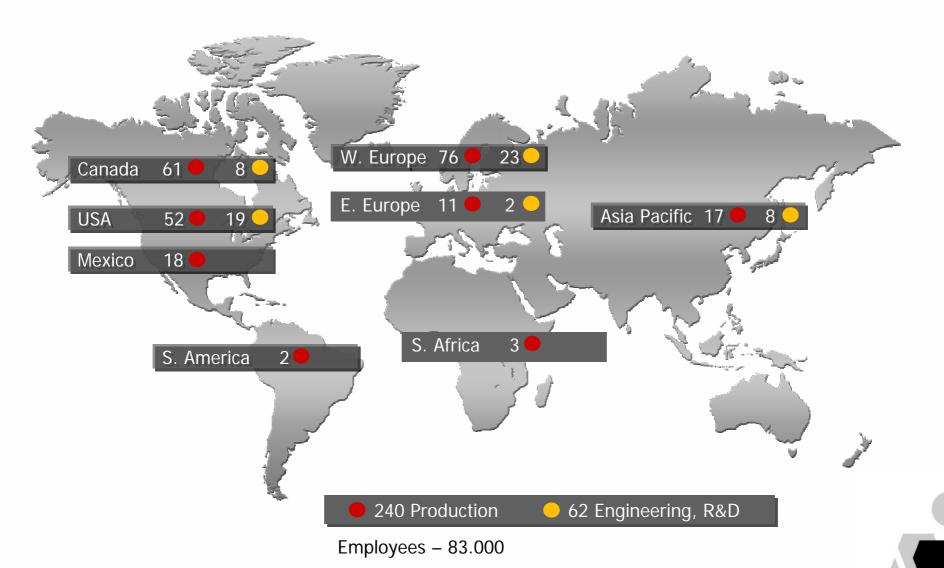
Vision Systems

- ·Inside Mirrors
- Outside Mirrors
- · Engineered Glass



Magna Global Footprint



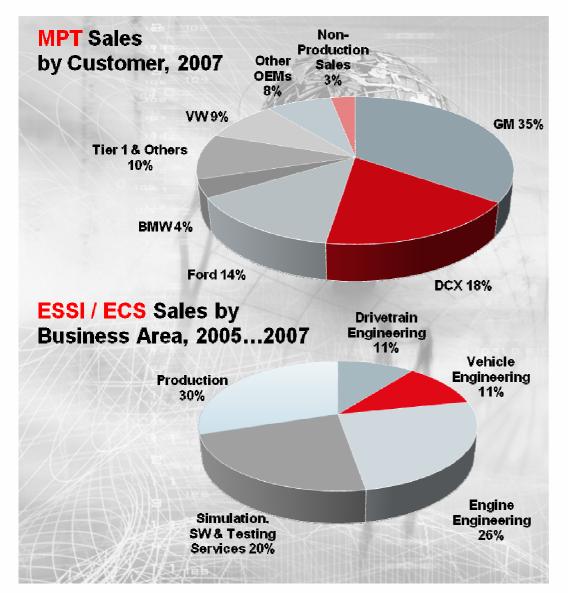


As of September 2007

W. Dantendorfer

Magna Powertrain – Facts & Figures





MPT - Key figures:

- Total revenues 2007: US\$ 3,4 billions
- Over 11.000 employees
- 38 locations
- 9 design & engineering centers

ESSI / ECS - Key figures:

- Total revenues 2007: US\$ 65 millions
- 490 employees
- 7 locations
- 3 engineering centers
- 4 sales & support offices

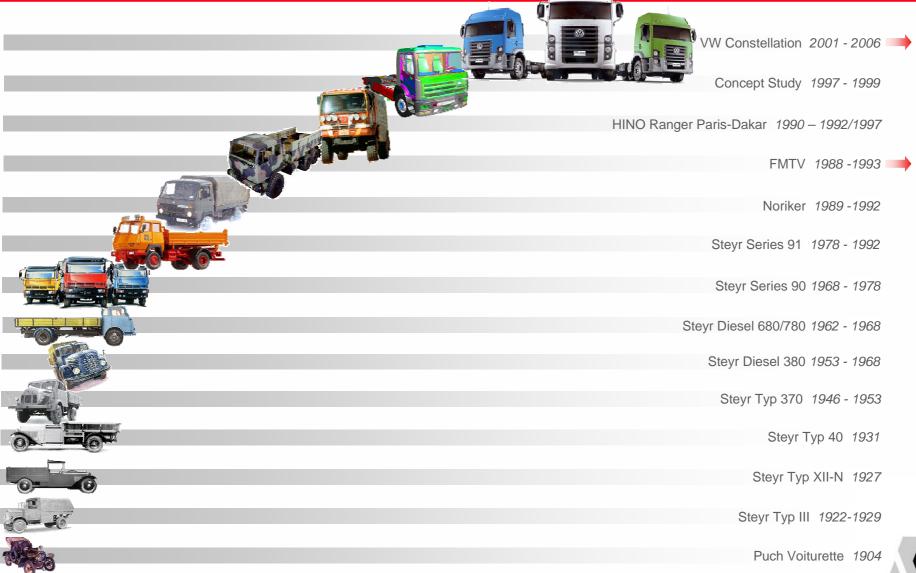
ECS – originated in the Steyr Truck Division





100 Years of Experience in the Commercial Vehicle Industry





Engineering Center STEYR – Range of Services







Drivetrain & Axle Engineering



Commercial Truck
Engineering



Engine Engineering



Simulation & Testing Services



Technical Application / Software & Support



Production In Low Volumes



ECS Software Products





Software Development & Support

- FEMFAT
 FEM based Fatigue Prediction
 (www.femfat.com)
- KULI
 Simulation of the Vehicle Thermal Management (www.kuli.at)
- KABI, EB-Cable
 Integration of CAD/CAM with Electric Engineering (www.kabi.at)
- FASI
 Driving Simulation (www.fasi.at)
- ALSIM
 CAD based Simulation of the Dip-Coating Process (www.alsim.at)
- EIB
 Engineering Integration Base
- VANC
 CAM System for Drilling, Milling and Turning



Date: Feb. 08

KULI User Meeting Shanghai 2008





- Long History around the World, widely used by famous OEMs and suppliers
- Quickly developing in China

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- Platform of Vehicle Thermal Management, an efficient tool for strict requirement of emission-CO₂, Exhaust Pollutants, for more comfortable Driving Condition
- Platform of Technology and Experience Share and Communication



Date: Feb. 08



Wish You Have a Pleasant and Successful Day!

Thank you for your attention.