

MODUS

AUTOMOTIVE • ENGINEERING CONSULTING



...all tested.

Company Review

Company



MODUS Hispanica S.L.

Germany

- > Wiesbaden-Igstadt (Frankfurt, Hessia)
- > Eching (München, Bavaria)

Founded 1993

Spain

- > Conil / Frontera (Cadiz, Andalusia)
- > Jerez / Frontera (Cadiz)
- > Mojacar I & II (Almeria)

Founded 1996

France - **AVM** Automotive Validation Module > Salon (Provence)

Founded 2004

Slovakia - **JB Modos**

- > Banska Bystrica

Founded 2006

Sweden

- > Älvsbyn (Lapland)

Temporary Site

Managing Owner :

Dipl.-Ing. Jürgen Bauer, expert for real system testing with executive responsibility and consulting capacity in technical services, has 3 decades of experience in the automotive industry, where he was working in the development center of two automotive corporations, GM-Opel and VW-Audi, as a member of management dealing mainly with chassis, drive train and driving dynamics.



Service Fields



Test - Validation <> Personnel Services <> Consulting

Our clients appreciate the experience of the Modus Team in validating their development targets during the total development process through quality assessment and benchmarking.

The validation is performed all over Europe to consider dissimilar climate zones, different road - traffic conditions and various driving habits.

We feel obliged to combine high quality with neutrality, objectivity and confidentiality.

Clients

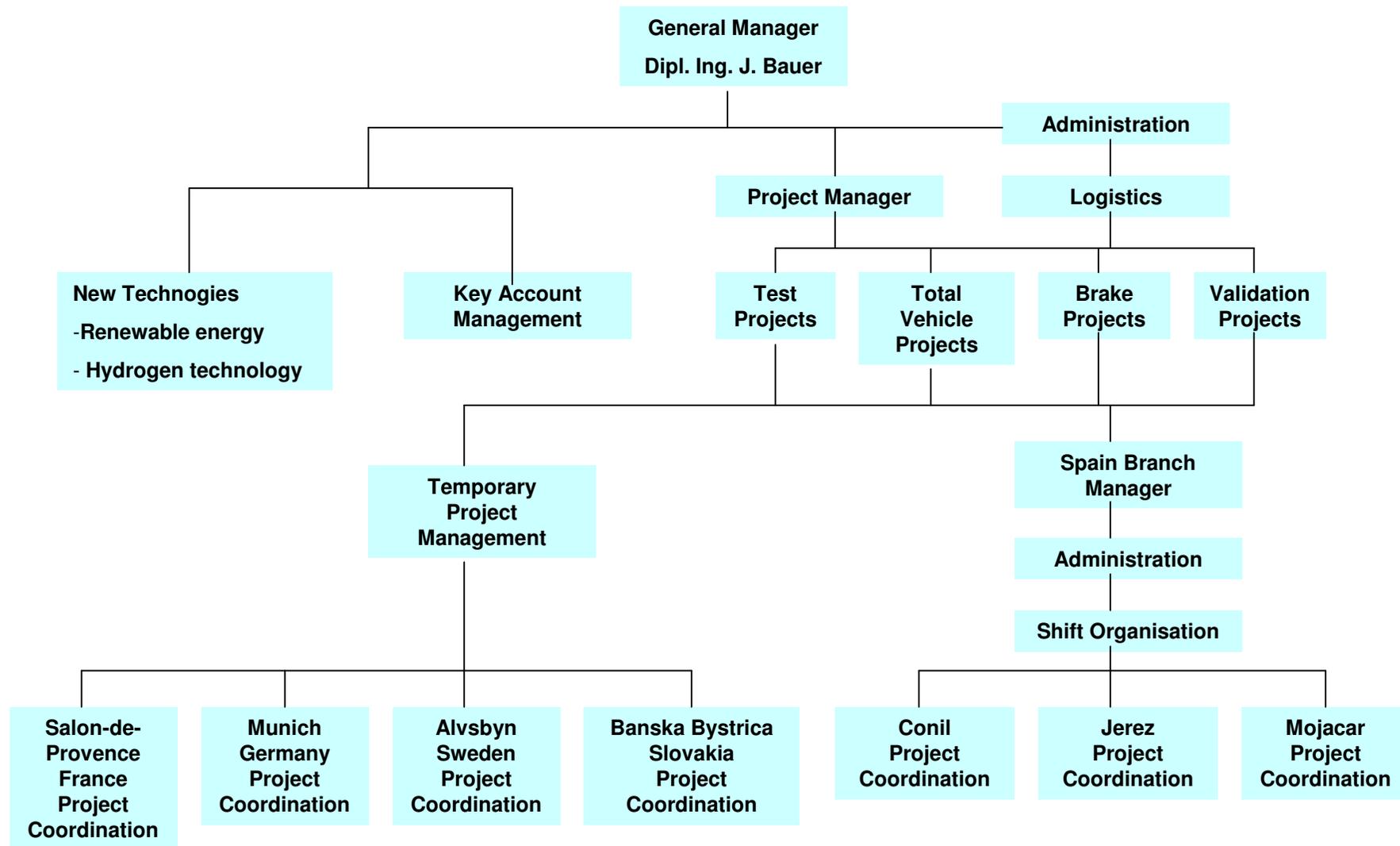
International leading automobile manufacturers

Toyota, BMW, Daihatsu, Porsche, Mitsubishi, Opel, Hyundai, KIA, Nissan, Audi, KTM, Yamaha

Suppliers of automotive systems and components

Akebono, Aisin, BBA-Friction, Bosch, Brembo, Continental Teves, Delphi, GM- Powertrain, Goodyear, Hankook, Kumho, TRW, TMD-Friction, ZF

Organigram



Operation Areas Europe



Validation Personnel

Total Staff : 80

Engineers	10%				
Mechanics / Supervisors	10%				
Drivers / Evaluators	80%				
Languages	German	English	Spanish	French	Italian
> 5 years experience	65%				
Age of Driving Personnel	23 - 30	31 - 40	41 - 50	51 - 58	
	34%	35%	22%	9%	
Senior Quota	3%				
Female Quota	5%				



Validation Performance: 1993 - 2008

Validated Vehicle Brands	
Toyota - Lexus	15.900.000
Opel	8.900.000
Hyundai	3.000.000
BMW	2.915.000
KIA	2.600.000
VW	1.050.000
Mercedes	485.000
Nissan	450.000
Yamaha	310.000
Mitsubishi	280.000
Honda	275.000
Peugeot	265.000
Ford	265.000
Fiat	265.000
Renault	260.000
Volvo	230.000
Daewoo	200.000
Audi	195.000
KTM	80.000
Harley-Davidson	40.000
Rover	30.000
Citroen	15.000

38 mio. km



System Validation: 23 mio. km

Module Validation: 15 mio. km

(Mojacar Brake Test alone 5,6 mio. km)

(Motorbike Test alone 3,7 mio. km)

In countries :

Spain	63%
Germany	15%
Sweden & Finland	7%
Italy	4%
France	5%
Slovakia	6%



Location Munich - Germany



Location Conil - Spain



Location Jerez - Spain



Location Mojácar - Spain



Location Banska-Bystrica - Slovakia



Location Älvsbyn - Sweden



The Increase of Real System Validation

creates the anticipatory mode of reliability



**and leads to the necessary improvements
of productivity, safety, recall actions and break downs.**

- less quality repair costs -**
- higher benefits for Supplier and OEM -**