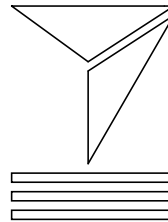


Benchmarking Study of European Automotive Clusters

**Stage 1 – Draft Report
December 2005**



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Terms of Reference

The terms of reference for the study were set out in a proposal document to Automotive Sweden.

The main objectives of the study were to:

- Benchmark West Sweden's automotive industry cluster against other key automotive regions and clusters in Europe.
- To determine the key factors for cluster success and the best practice among other cluster organisations/bodies
- To address the value of international clusters for SME's in the Automotive sector, with particular reference to Clusters Linked Over Europe (CLOE)

The research has been divided into 2 stages.

Stage 1:

The objective was to provide an overview of each of the regions/clusters selected for study.

Upon completion of Stage 1 a number of regions/clusters will be selected for much more in-depth analysis and appraisal in Stage 2.

This document sets out the research findings to date for Stage 1.

Progress to Date

To date we have completed the Stage 1 research on the following countries/regions.

- Austria, Czech Republic, Holland/The Netherlands, Hungary, Italy, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, and West Sweden.
- Germany is partially complete
- France, Spain, Turkey and the UK have yet to be completed and will follow by January 31st.

A full bibliography of sources and contacts will be provided upon completion.

Definition of a Cluster

For the purposes of this report a cluster is defined as a concentration of automotive activity/technology/expertise in a given region.

Research has shown that there is no recognised formal definition of a cluster. Different definitions and interpretations of the term are used across Europe and within the countries/regions studied.

It is clear that some regions have established formal cluster organisations to look after the interests of cluster members and to help with the cluster development. Where these exist we have clearly identified them and provided contact details.

For the succession states to the EU we have analysed the automotive activity within the country as a whole.

COUNTRY OVERVIEWS

Country	Austria
Region	3 Automotive Clusters: <ul style="list-style-type: none"> • Upper Austria Cluster • Styria • Vienna
Main city/cities	Linz, Graz, Vienna
Definition of Region/Location and size	<p>Automotive-Cluster Upper Austria (AC) :</p> <ul style="list-style-type: none"> • Based around Linz <p>AC Styria Autocluster GmbH</p> <ul style="list-style-type: none"> • Based around Graz <p>Automotive Cluster Vienna Region</p> <ul style="list-style-type: none"> • Based around Vienna, Lower Austria and Burgenland

Key Macro Economic data	Population: 8,184,691			
	Austria	2003	2004	2005(f)
	GDP Growth	0.78	2.04	1.79
	GDP Per head (US\$)	31,439.61	35,729.85	39,513.73
	Inflation average (%)	1.36	2.06	2.46
Cluster facts and figures	Upper Austria (founded 1998)			
	<ul style="list-style-type: none"> • 256 companies in the network • Automotive sector turnover: €7.3bn • 95,000 employees • R&D: 3.8% of cluster turnover • Export ratio: 60% 			
	AC Styria (founded 1966)			
	<ul style="list-style-type: none"> • 185 companies - 40,000 employees 			
Automotive Cluster Vienna region (founded 2001)				
<ul style="list-style-type: none"> • Founded by the economic development agency for Lower Austria and the Vienna Economic Promotion Fund as an inter-technology automotive cluster. Its mission is to promote trail-blazing, high growth technologies. • The focus is on transport, telematics, logistics, micro-technology and nano-technology. 				

Affiliates in Austria	n/a																														
Vehicle Manufacturers	<p>Details of the main vehicle manufacturers in this cluster: 5 vehicle manufacturers are located in Austria.</p> <p>Passenger cars production in 2004:</p> <table border="1"> <thead> <tr> <th>Group</th> <th>Marque</th> <th>2004 Production</th> </tr> </thead> <tbody> <tr> <td>BMW</td> <td>BMW</td> <td>112,840</td> </tr> <tr> <td>BMW Total</td> <td></td> <td>112,840</td> </tr> <tr> <td>Daimler Chrysler</td> <td>Chrysler</td> <td>40,118</td> </tr> <tr> <td></td> <td>Jeep</td> <td>23,957</td> </tr> <tr> <td></td> <td>Mercedes-Benz</td> <td>31,996</td> </tr> <tr> <td>Daimler Chrysler Total</td> <td></td> <td>96,071</td> </tr> <tr> <td>GM</td> <td>Saab</td> <td>18,340</td> </tr> <tr> <td>GM Total</td> <td></td> <td>18,340</td> </tr> <tr> <td></td> <td>Country Total</td> <td>227,251</td> </tr> </tbody> </table> <p>Commercial vehicles:</p> <ul style="list-style-type: none"> • MAN Production 2004: 18,820 • OAF Production 2004: 3,030 	Group	Marque	2004 Production	BMW	BMW	112,840	BMW Total		112,840	Daimler Chrysler	Chrysler	40,118		Jeep	23,957		Mercedes-Benz	31,996	Daimler Chrysler Total		96,071	GM	Saab	18,340	GM Total		18,340		Country Total	227,251
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Supplier companies	The component sector in Austria is made up of a multitude of SME's mainly specialising in high value added components such as engines, transmissions, and related components.																														

	<p>Examples of suppliers in this cluster include:</p> <ul style="list-style-type: none"> • BMW Steyr (engines) • Fiat-GM Powertrain (engines and transmissions) • Georg Fischer • Hirtenberger • Magna Drivetrain <p>Note: Output from BMW's engine plant and Opel's facility accounts for around 60% of all automotive components purchased by vehicle assemblers in Austria.</p>
<p>Technology clusters</p>	<p>The Cluster Drive Technology: 80 partner companies 27,000 employees Turnover €9.4bn</p> <ul style="list-style-type: none"> • R&D in engine and drive technology, and in fuel cell technology <p>Member companies include:</p> <ul style="list-style-type: none"> • BMW • OMV • MAN Steyr • AVL List • TMS Produktionssysteme • Miba Sintermetall

	<p>Website: www.cdt.at</p> <p>Upper Austria's cluster specialises in:</p> <ul style="list-style-type: none"> • Engine/chassis • Interior/exterior • Electrical and electronics
Total investment in region/cluster	n/a
Links/association with other regions/clusters	<p>Automotive Cluster Vienna</p> <p>International co-operation with Hungary, the Czech Republic and Slovakia</p>
Summary of govt/regional support	<p>Cluster funding available for projects that include at least 3 cluster partners and one SME</p> <p>Funding covers personnel and external service costs</p> <p>Funding available up to Max 25% of costs or €27,750 per company</p>
Association name and contact	<p>Upper Austria Cluster</p> <p>Automobil-Cluster Oberösterreich GmbH</p> <p>Hafenstrasse 47-51</p> <p>A-4020 Linz</p> <p>E-Mail: automobil-cluster@clusterland.at</p> <p>Phone: +43-(0)732-79810-5102</p> <p>Fax: +43-(0)732-79810-5080</p> <p>Web: http://www.automobil-cluster.at/</p>

	AC Styria Cluster Web: www.acstyria.com Automotive Cluster Vienna Web: www.acvt.at
Sources:	www.automobil-cluster.at

Country	Czech Republic																							
Region	Whole Country																							
Main city/cities	Mlada Boleslav, Kolin, Brno																							
Definition of Region/Location and size	The automotive industry is centred around two main regions; Mlada Boleslav and Kolin. Skoda has its main operations in Mlada Boleslav and Toyota/PSA recently began production at their joint venture plant in Kolin,																							
Key Macro Economic data	<p>Population: 10,241,138</p> <table border="1"> <thead> <tr> <th></th> <th>Czech Republic</th> <th>2003</th> <th>2004</th> <th>2005(F)</th> </tr> </thead> <tbody> <tr> <td>GDP Growth</td> <td></td> <td>3.72</td> <td>4.03</td> <td>4.04</td> </tr> <tr> <td>GDP Per head (US\$)</td> <td></td> <td>8,849.84</td> <td>10,473.14</td> <td>12,611.47</td> </tr> <tr> <td>Inflation average %</td> <td></td> <td>0.10</td> <td>2.80</td> <td>1.59</td> </tr> </tbody> </table>					Czech Republic	2003	2004	2005(F)	GDP Growth		3.72	4.03	4.04	GDP Per head (US\$)		8,849.84	10,473.14	12,611.47	Inflation average %		0.10	2.80	1.59
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Cluster facts and figures	<p>Cluster founded: The AIA CR (Automotive Industry Association) was founded in 1989. Today it covers the whole automotive sector and has 153 companies as members The automotive industry accounts for:</p> <ul style="list-style-type: none"> • 20% of manufacturing output 																							

	<ul style="list-style-type: none"> • 25% of Czech exports • Supports 330 companies, including 16 vehicle manufacturers, 84 Tier I suppliers and 50 other service providers. <p>Employees: 130,000</p>												
Affiliates in Slovenia	<p>Cluster affiliates in Czech Republic include: CzechInvest: www.czechinvest.org</p>												
Vehicle Manufacturers	<p>Passenger Cars: Skoda – (3 plants) TPCA – Will produce 300,000 units a year for the Peugeot and Citroen brands and 100,000 units for Toyota. <i>(An announcement in January 2006 stated that an additional 150,000 units would be produced at TPCA. Further details will follow.)</i></p> <p>Light commercials: Skoda Production 2004: 1,072</p> <p>Trucks: Tatra Production 2004: 1,710 Avia Production 2004: 563</p> <p>Passenger car production in 2004:</p> <table border="1"> <thead> <tr> <th>Group</th> <th>Marque</th> <th>2004 Production</th> </tr> </thead> <tbody> <tr> <td>VW</td> <td>Skoda</td> <td>443,049</td> </tr> <tr> <td>VW Total</td> <td></td> <td>443,049</td> </tr> <tr> <td></td> <td>Country Total</td> <td>443,049</td> </tr> </tbody> </table>	Group	Marque	2004 Production	VW	Skoda	443,049	VW Total		443,049		Country Total	443,049
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VW Total		443,049											
	Country Total	443,049											

<p>Supplier companies</p>	<p>Over 280 supplier companies operate in the Czech Republic</p> <ul style="list-style-type: none"> • The majority of suppliers are SME's with between 200-300 employees and are privately owned. • 67% are foreign owned • 45% of the top 100 European suppliers <p>Examples of suppliers in this cluster include:</p> <table data-bbox="779 592 1697 1050"> <tr> <td>Arvin Meritor</td> <td>Ricardo</td> </tr> <tr> <td>Benteler Automotive</td> <td>Saint Gobain</td> </tr> <tr> <td>Bosch</td> <td>Siemens</td> </tr> <tr> <td>Denso</td> <td>Tokai Rica</td> </tr> <tr> <td>Eaton</td> <td>TRW</td> </tr> <tr> <td>Johnson Controls</td> <td>Visteon</td> </tr> <tr> <td>Karosa</td> <td>Valeo</td> </tr> <tr> <td>Koito</td> <td></td> </tr> <tr> <td>Peguform Bohemia</td> <td></td> </tr> </table>	Arvin Meritor	Ricardo	Benteler Automotive	Saint Gobain	Bosch	Siemens	Denso	Tokai Rica	Eaton	TRW	Johnson Controls	Visteon	Karosa	Valeo	Koito		Peguform Bohemia	
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Peguform Bohemia																			
<p>Technology clusters</p>	<p>The country has eight technical universities, 8,000 technical and science related graduates a year.</p> <p>The Josef Bozek Research Centre of Engine and Automotive Technology, is based at the Czech Technical University in Prague</p> <p>The main focus of research is petrol and diesel engines as well as alternative fuels</p>																		

Total investment in region/cluster	n/a
R & D	<p>According to the FDI magazine, the Czech Republic secured more automotive R&D projects than any other country in Europe between 2002-2004</p> <p>The FDI magazine ranks the Czech Republic as the fourth most attractive automotive R&D location worldwide...</p>
Links/association with other regions/clusters	NA
Summary of govt/regional support	<p>Investment incentives are available for manufacturing in the form of:</p> <ul style="list-style-type: none"> • Tax incentives • Job creation grants • Training grants • Site support <p>Investment incentives for Technology Centres is available in the form of:</p> <ul style="list-style-type: none"> • Subsidies for business activity • Subsidies for training and re-training
Cluster Association name and contact details	<p>AIA, Opletalova 55, 11000 Praha 1 Tel: + 420 221 602 987 Fax: + 420 224 239 690 www.autosap.cz</p>

Country	Germany
Region	5 Automotive Clusters <ul style="list-style-type: none"> • Baden-Württemberg • Bayern • Saxony • Thuringia • Saarland
Main city/cities	Various
Definition of Region/Location and size	<p>Automotive Cluster Baden Württemberg</p> <ul style="list-style-type: none"> • Based in the federal state of Baden Württemberg around Stuttgart, Karlsruhe, Heilbronn <p>Bayern Innovation and Cooperation Initiative for the Automotive Suppliers Industry, BAIKA</p> <ul style="list-style-type: none"> • Based in the federal state of Bayern around Munich, Regensburg <p>Saxony Automotive Supplier Network</p> <ul style="list-style-type: none"> • Based in the federal state of Saxony around Leipzig, Plauen, Zwickau, Dresden <p>Automotive Supplier Thuringia (Automotive Thüringen e.V.)</p> <ul style="list-style-type: none"> • Based in the federal state of Thuringia around Erfurt, Gotha, Bad Salzungen <p>Netzwerk Atomotive Saarland</p> <ul style="list-style-type: none"> • Based in the federal state of Saarland around Neukirchen, Saarbruecken,

Key Macro Economic data	Population: 82,431,390	Germany	2003	2004	2005(F)
		GDP Growth	-0.02	1.03	1.04
		GDP Per head (US\$)	29,191.28	32.664.49	35,588.83
		Inflation average %	1.05	1.69	1.42
Cluster facts and figures	Automotive Cluster Baden Württemberg <ul style="list-style-type: none"> • Generates more than a quarter of Germany's annual automotive sales • Export rate: over 50%, € 26.5 billion in 2001, representing 21.5% of the total German exports • Automotive and engine manufacturer's sales € 38 billion in 67 factories • 194 direct suppliers generate sales of € 13 billion • Including manufacturers of special vehicles, distributors and indirect suppliers: more than 2000 enterprises and development partners operate in the region. In total these companies generate sales of more than €30 billion • Supporting electronics sector: approximately 1000 companies, 210,000 employees • Car manufacturers and suppliers employ more than 220,000 people (20% of total workforce in the region) 				

Baika Bayern (founded in 1995)

- Estimated number of members: 672
- Some 1.000 plants in the automotive supplier industry in Bavaria
- It includes a “new” cluster: Upper Franconia (north Bavaria) with 150 components suppliers
- Sales of Bavarian-made vehicles & components in 2004: €71.271m (25.4% of national sales)
- Autom. employment: 211,645 employees (15.7% of workforce cf 13.3% for national figure)

Saxony Automotive Supplier Network (founded in 1998)

- Turnover €8,576m in 2002
- Employees: 64,346 in 2002
- 747 passenger car suppliers
 - 442 parts manufacturers
 - 193 service firms
 - 122 equipment manufacturers

Automotive Thuringia

- Turnover: €2.6m (2004)
- 94 members
- Employees: 7,900

Automotive Network Saarland

- Car production: 5.3m in 2002 (8% of total German car production)
- 245 potential members (suppliers)

Affiliates in Germany	<i>To follow</i>
----------------------------------	------------------

Germany (continued)

<p>Vehicle Manufacturers</p>	<p>The main vehicle manufacturers located within each cluster are as follows:</p> <p>Baden Württemberg:</p> <ul style="list-style-type: none"> • Audi • Mercedes-Benz • Porsche <p>Baika – Bayern</p> <ul style="list-style-type: none"> • Audi, BMW, DaimlerChrysler, Ford, Honda, Isuzu, Opel, PSA, Porsche, Renault, Toyota, VW <p>Saxony</p> <ul style="list-style-type: none"> • Passenger Cars: <ul style="list-style-type: none"> ○ BMW Leipzig ○ Porsche Leipzig ○ VW Zwickau, Chemnitz and Dresden • Components: <ul style="list-style-type: none"> ○ Toyota Strassgraebchen Employees:370 ○ VW Stollberg 2 million diesel injection systems Employees: 200 • Buses <ul style="list-style-type: none"> ○ Neoplan Plan Production 2004: 270 units Employees: 350 <p>Thuringia</p> <ul style="list-style-type: none"> • Passenger Cars: <ul style="list-style-type: none"> ○ Opel Eisenach Production 2003: 175,000 Employees: 1,900
-------------------------------------	--

Thuringia (continued)

Components:

- BMW Eisenach Employees: 230
- MB Koellada Production: 250,000 engines
Employees: 500

German passenger car production in 2004 (national):

Group	Marque	2004 Production
BMW	BMW	760,746
Daimler Chrysler	Chrysler	35,596
	Maybach	566
	Mercedes-Benz	948,038
Daimler Chrysler Total		984,200
Ford	Ford	742,455
GM	Opel	575,315
Porsche*	Porsche	74,044
VW	Audi	751,923
	VW	1,011,787
VW Total		1,763,710
	Country Total	4,900,470

*includes Cayenne (partly assembled at VW Bratislava)

<p>Supplier companies</p>	<p>Examples of suppliers in this cluster include:</p> <p>Baden Württemberg</p> <ul style="list-style-type: none"> • Behr, Bosch, Eberspächer, Knecht, Mahle, ZF Friedrichshafen AG <p>Baika</p> <ul style="list-style-type: none"> • The Top 10 global Automotive Suppliers in BAIKA: Aisin Seiki, Bosch, Delphi Automotive Systems, Denso, Faurecia, Johnsons Controls, Lear, Magna International, TRW, Visteon • All Top 10 national Automotive Suppliers are in BAIKA: BASF, Bayer, Bosch, Continental, Mahle, Rheinmetall, ThyssenKrupp Automotive, ThyssenKrupp Steel-Group, Siemens VDO Automotive, ZF Friedrichshafen • Baika specialises in <ul style="list-style-type: none"> ○ Drive/powertrain ○ Chassis ○ Electric/electronic ○ Interior fittings ○ Body <p>Saxony</p> <p>Autoliv, Behr, Brose, Federal Mogul, Halberg Guss, Hitachi, Johnson Controls, Philips, Takata, Tower, Siemens VDO</p> <p>Saarland</p> <p>Bosch, Eberspaecher, ZF</p>
<p>Technology clusters</p>	<p>To follow</p>

Total investment in region/cluster	To follow												
R & D	<p>EU's average for R&D expenditure in 2002: public 0.7%, private: 1.3 = 2% of GDP Germany's average; public 0.7% 1.8% private = 2.5 % of GDP</p> <ul style="list-style-type: none"> • Baden Württemberg's average: Public: slightly over average, but private is very high with total expenditures in R&D: 3.7% of GDP • Baden Württemberg record 112 patents per 100.000 inhabitants (Germany: 58) • Baden Württemberg has 9 state and 3 private universities, 14 Max Planck institutes, 15 Fraunhofer Association, 9 Otto von Guericke Associations, 3 Hermann von Hemholts research centres and 250 centred of the Steinbeis Foundation 												
Links/association with other regions/clusters	<p>This cluster has links and/or associations with the following clusters/regions:</p> <p>Automotive Cluster Baden Württemberg <i>Further information to follow</i></p> <p>Baika:</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Upper Austria</td> <td style="text-align: center;">Holland</td> </tr> <tr> <td style="text-align: center;">Slovenia</td> <td style="text-align: center;">Hungary</td> </tr> <tr> <td style="text-align: center;">Portugal</td> <td style="text-align: center;">Poland</td> </tr> <tr> <td style="text-align: center;">Slovakia</td> <td style="text-align: center;">Bosnia Herzegovina</td> </tr> <tr> <td style="text-align: center;">Czech Republic</td> <td style="text-align: center;">Cluster Berlin-Brandenburg (Germany)</td> </tr> <tr> <td style="text-align: center;">Cluster Berlin-Brandenburg (Germany)</td> <td></td> </tr> </table>	Upper Austria	Holland	Slovenia	Hungary	Portugal	Poland	Slovakia	Bosnia Herzegovina	Czech Republic	Cluster Berlin-Brandenburg (Germany)	Cluster Berlin-Brandenburg (Germany)	
Upper Austria	Holland												
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	<p>Saxony</p> <ul style="list-style-type: none"> • Saxony Mechanical Engineering Network Initiative • Saxony-Poland-Czech Cooperation www.polen-tschechien-kontakt.info • Slovakia • Austria <p>Automotive Thuringia</p> <ul style="list-style-type: none"> • Automotive Clusters in Germany: Saxony, Berlin Brandenburg, Rheinland-Pfalz, Mecklenburg, Nordrhein-Westfalen, BAIKA, MAHREG - Sachsen-Anhalt Automotive e.V. • International Automotive Clusters: Hungary, Upper-Austria, Slovenia, Slovakia, Holland
Summary of govt/regional support	<i>To follow</i>
Additional information	
Cluster Association name and contact details	<p>Autoland Baden Württemberg Wirtschaftsministerium Baden-Württemberg Theodor-Heuss-Str. 4 D-70174 Stuttgart Tel. +49 (0)711 / 123 - 0 Fax +49 (0)711 / 123 - 2126 E-Mail: poststelle@wm.bwl.de Homepage: http://wm.baden-wuerttemberg.de</p>

Bayern Innovativ

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Saxony Automotive Supplier Network

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Netzwerk Atomotive Saarland

- c/o Forgis GmbH, ZIP - Zentrum für innovative Produktion, Altenkesseler Str. 17/D2, D-66115 Saarbrücken-Burbach

	<p>Tel: +49-681-302-6142 Fax: +49-681-302-6132 Email: info@automotive.saarland.de Internet : http://www.automotive.saarland.de</p>
<p>Sources:</p>	<p>See above. Others include:</p> <p>European Monitoring Centre on Change: www.eurofound.eu.int Industrial Investment Council: www.iic.de Invest in Baravia: www.invest-in-bavaria.com Saarland Economic Promotion Corporation Saxony-Poland-Czech Cooperation: www.polen-tschechien-kontakt.info West East Industrial Districts: www.west-east-id.net World Markets Research Centre: www.worldmarketsanalysis.com</p>

Country	The Netherlands				
Region	Country coverage				
Main city/cities	Born, Eindhoven				
Key Macro Economic data	Population: 16,407,491	Holland	2003	2004	2005(F)
		GDP Growth	-0.88	1.43	NA
		GDP Per head (US\$)	31,775.23	35,845.56	NA
		Inflation average (%)	2.11	1.20	NA
Cluster facts and figures	<p>NEVAT is the Dutch Association of Subcontracting industries. It has 280 members NEVAT looks after the automotive subcontracting industry.</p> <p>Holland Automotive is a market sector within NEVAT. Holland Automotive has around 60 affiliate companies It brings together Dutch suppliers of complete systems, subsystems, modules, and related</p>				

	<p>processes.</p> <p>The remit of Holland Automotive is to:</p> <ul style="list-style-type: none"> • Strengthen the national and international competitive position of the Dutch automotive suppliers. • Provide general and specific information on developments in the industry • Actively work in the market • Participate in national and international network of interest to the members including the Dutch Automotive Federations and the Automotive Technology Centre • Facilitate a subcontractor network 															
<p>Affiliates in The Netherlands</p>	<p>Cluster affiliates in The Netherlands include: Not known</p> <p>Cluster members include: Not known</p>															
<p>Vehicle Manufacturers</p>	<p>Details of the main vehicle manufacturers in this cluster: 3 main vehicle passenger car manufacturers</p> <table border="1" data-bbox="589 1034 1464 1342"> <thead> <tr> <th style="background-color: yellow;">Group</th> <th style="background-color: yellow;">Marque</th> <th style="background-color: yellow;">2004 Production</th> </tr> </thead> <tbody> <tr> <td>Daimler Chrysler</td> <td>Smart</td> <td>72,378</td> </tr> <tr> <td>Ford</td> <td>Volvo</td> <td>27,882*</td> </tr> <tr> <td>Mitsubishi</td> <td>Mitsubishi</td> <td>49,000</td> </tr> <tr> <td></td> <td>Country Total</td> <td>149,260</td> </tr> </tbody> </table>	Group	Marque	2004 Production	Daimler Chrysler	Smart	72,378	Ford	Volvo	27,882*	Mitsubishi	Mitsubishi	49,000		Country Total	149,260
Group	Marque	2004 Production														
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Ford	Volvo	27,882*														
Mitsubishi	Mitsubishi	49,000														
	Country Total	149,260														

	<p>* Production moved to Belgium</p> <p>Trucks: DAF – production in 2004: 34,962</p> <p>Details of vehicle production in this cluster: Production in 2004: 155,826 (total automotive sector) units</p>
Supplier companies	<p>Approximately 130 component suppliers operate are located in The Netherlands</p> <p>Examples of suppliers in this cluster include:</p> <ul style="list-style-type: none"> • Akzo Nobel • DSM • Koni • Phillips • Polynorm
Technology clusters	n/a
Total investment in region/cluster	n/a
R & D	n/a
Links/association with other regions/clusters	<ul style="list-style-type: none"> • NEVAT is part of Orgalime, the European umbrella organisation for organisations in the metal and electronics industries. • NEVAT contributes to Dutch industrial policy

Summary of govt/regional support	n/a
Cluster Association name and contact details	<p>NEVAT Boerhaavelaan 40 Postbus 190, 2700 AD Zoetermeer, The Netherlands. Telephone: +(31) 79 35 31 364 / 300 Fax: +(31) 79 35 31 365 E-Mail: info@nevat.nl Web Site: www.nevat.nl www.nevat.nl www.emcc.eurofond.eu</p>

Country	Hungary																			
Region	Country coverage																			
Main city/cities	Gyor and Esztergom																			
Definition of Region/Location and size	Vehicle manufacturing is centred around Gyor and Esztergom																			
Key Macro Economic data	<p>Population: 10,006,835</p> <table border="1"> <thead> <tr> <th>Hungary</th> <th>2003</th> <th>2004</th> <th>2005(f)</th> </tr> </thead> <tbody> <tr> <td>GDP Growth</td> <td>3.05</td> <td>4.01</td> <td>3.52</td> </tr> <tr> <td>GDP per head (US\$)</td> <td>8199.25</td> <td>9878.62</td> <td>11822.43</td> </tr> <tr> <td>Inflation average (%)</td> <td>4.73</td> <td>6.76</td> <td>3.54</td> </tr> </tbody> </table>				Hungary	2003	2004	2005(f)	GDP Growth	3.05	4.01	3.52	GDP per head (US\$)	8199.25	9878.62	11822.43	Inflation average (%)	4.73	6.76	3.54
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Cluster facts and figures	<p>The Hungarian Automotive Sector in numbers</p> <p>Production Value</p> <ul style="list-style-type: none"> - approx. HUF 9 billion in 2004 - accounts for 14% of total Industrial Production <ul style="list-style-type: none"> • Total number companies involved in the sector: 350 in 2004 • Total number of employees: ~ 90.000 people • Export ratio: above 90 % 																			

	<ul style="list-style-type: none"> • Main export market: European Union • Significant ratio of foreign ownership: above 80% • Position in the supply chain: 88% components, 12% modules and systems • Level of technology: 24% world class, 17% advanced tech, 58% other
Affiliates	<p>Numbers of automotive companies in cluster</p> <p>Claims to be the first Automotive Cluster in the transition economies Cluster covers 250+ companies – inc 60 major suppliers</p> <p>Cluster Founders include:</p> <ul style="list-style-type: none"> • Audi • Opel • Suzuki • LUK Savaria • Raba • Citibank • IKT West Transdanubian Regional Development Agency <p>The cluster is supported by the ministry of economics.</p>
Vehicle Manufacturers	<p>Details of the main vehicle manufacturers in this cluster:</p> <ul style="list-style-type: none"> • Audi and Suzuki passenger cars • Raba and Ikarus. Small volume trucks and buses <p>Details of vehicle production in this cluster:</p>

	<p>Production in 2004:</p> <table border="1" data-bbox="589 357 1464 719"> <thead> <tr> <th data-bbox="589 357 954 448">Group</th> <th data-bbox="954 357 1193 448">Marque</th> <th data-bbox="1193 357 1464 448">2004 Production</th> </tr> </thead> <tbody> <tr> <td data-bbox="589 448 954 504">Suzuki</td> <td data-bbox="954 448 1193 504">Subaru</td> <td data-bbox="1193 448 1464 504">8,500</td> </tr> <tr> <td data-bbox="589 504 954 560"></td> <td data-bbox="954 504 1193 560">Suzuki</td> <td data-bbox="1193 504 1464 560">93,421</td> </tr> <tr> <td data-bbox="589 560 954 616">Suzuki Total</td> <td data-bbox="954 560 1193 616"></td> <td data-bbox="1193 560 1464 616">101,921</td> </tr> <tr> <td data-bbox="589 616 954 671">VW</td> <td data-bbox="954 616 1193 671">Audi (TT)</td> <td data-bbox="1193 616 1464 671">23,605</td> </tr> <tr> <td data-bbox="589 671 954 719"></td> <td data-bbox="954 671 1193 719">Country Total</td> <td data-bbox="1193 671 1464 719">125,526</td> </tr> </tbody> </table> <p data-bbox="589 730 1476 762">Audi (engines) Production 1.2mn units 2004.(Petrol and diesel)</p> <p data-bbox="589 775 1196 807">Opel (engines) Production 350,000 in 2004</p>	Group	Marque	2004 Production	Suzuki	Subaru	8,500		Suzuki	93,421	Suzuki Total		101,921	VW	Audi (TT)	23,605		Country Total	125,526
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Supplier companies	<p data-bbox="589 831 1440 863">250 companies – 60 major suppliers, the balance are SME's</p> <p data-bbox="589 922 1274 954">Examples of suppliers in this cluster include:</p> <ul data-bbox="636 970 909 1233" style="list-style-type: none"> <li data-bbox="636 970 775 1002">• Bosch <li data-bbox="636 1018 846 1050">• Continental <li data-bbox="636 1066 909 1098">• Delphi Calsonic <li data-bbox="636 1114 775 1145">• Denso <li data-bbox="636 1161 801 1193">• Linamar <li data-bbox="636 1209 757 1241">• Raba 																		
Technology clusters	n/a																		

<p>Total investment in region/cluster</p>	<p>Examples of recent investments include:</p> <ul style="list-style-type: none"> ▪ Audi expansion ▪ Opel/Daewoo regional headquarters for CEE ▪ Suzuki expansion for car production ▪ Ortech new capacity for supplying Opel & Suzuki ▪ SEWS new capacity for the production of spare parts ▪ Toyo new capacity for the production of car seats ▪ Linamar new plant for producing diesel engine components ▪ Phoenix AG development for logistics center ▪ Porsche new logistics center ▪ Visteon product development centre for compressors ▪ Schwarzmüller new capacity for trailers ▪ Delphi-Calsonic expansion of compressor production ▪ Renault logistics centre ▪ Bosch expansion of production capacity <p>FDI in the region</p> <ul style="list-style-type: none"> • Approx. 10% of the total FDI in Hungary • Approx. 10 billion Euro in automotive sector
<p>Links/association with other regions/clusters</p>	<p>International contacts</p> <ul style="list-style-type: none"> • Automotive Cluster Vienna Region (ACVR) www.acvr.at • Oberösterreichische Technologie- und Marketinggesellschaft m.b.H (TMG) www.tmg.at

	<ul style="list-style-type: none"> • ACStyria Autocluster GmbH www.acstyria.com • Business and Innovation Centre - BIC Bratislava www.bic.sk • Automotive Cluster of Slovenia (ACS) www.acs-giz.si • Wirtschaftsförderung Region Stuttgart www.region-stuttgart.de • CESTEC www.cestec.it • Innovation Relay Centre (IRC) Lombardia www.irclombardia.it
Summary of govt/regional support	Support is provided by the ministry of Economics and various regional development agencies.
Association name and contact	<p>PANAC Coordination Office representing the Hungarian Automotive Industry H-9027 Győr, Hédervári u. 25 Hungary Tel/Fax: +36-96-613-606 E-mail: rozsa.zoltan@panac.hu www.panac.hu (Hungarian only)</p> <p>Association of the Hungarian Vehicle Component Manufacturers H-1119 Budapest XI. Ker, Bartfai u. 5/B Tel + 36 1 203-8144 Majosz@mail.datanet.hu</p>

Country	Italy																			
Region	Piedmont – Liguria – Val d'Aosta																			
Main city/cities	Turin																			
Definition of Region/Location and size	Piedmont, in north west Italy is a region that represents 32% of Italy's GDP and 40% of exports. Population: 4.3mn																			
Key Macro Economic data	Population: 58,103,033	<table border="1"> <thead> <tr> <th>Italy</th> <th>2003</th> <th>2004</th> <th>2005(F)</th> </tr> </thead> <tbody> <tr> <td>GDP Growth</td> <td>0.35</td> <td>0.97</td> <td>na</td> </tr> <tr> <td>GDP Per head (US\$)</td> <td>25,473.07</td> <td>29,239.28</td> <td>na</td> </tr> <tr> <td>Inflation average (%)</td> <td>2.67</td> <td>2.21</td> <td>na</td> </tr> </tbody> </table>			Italy	2003	2004	2005(F)	GDP Growth	0.35	0.97	na	GDP Per head (US\$)	25,473.07	29,239.28	na	Inflation average (%)	2.67	2.21	na
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Inflation average (%)	2.67	2.21	na																	
Cluster facts and figures	The Piedmont region accounts for over 50% of Italy's automotive production with Fiat at the heart of the cluster. 1,400 companies 75,000 employees																			

	<p>Over 500 automotive component companies, mainly SME's turnover € 4.8bn per annum Annual cluster turnover: € 1.5bn Employees: Over 650,000 in the automotive sector.</p>
<p>Affiliates in Italy</p>	<p>Cluster affiliates in Italy include: ITP (Turin's inward investment body) with a particular interest in electronics, micro and nano technology. Cluster members include:</p> <ul style="list-style-type: none"> • Motorola • GM Powertrain

Vehicle Manufacturers	Details of the main vehicle manufacturers in this cluster: Passenger cars production 2004		
	Group	Marque	2004 Production
	Fiat	Alfa Romeo	162,116
		Ferrari	4,954
		Fiat	514,553
		Lancia	110,565
		Maserati	5,151
	Fiat Total		797,339
	Ford	Ford (StreetKa)	8,562
	GM	Opel (Astra cabrio and coupe)	13,395
	Mitsubishi	Mitsubishi (Pajero Pinin	8,672
	PSA	Peugeot (406 coupe - replacement made in France)	3,926
	Country Total	831,894	

	Light Commercial Vehicles production 2004	
	Manufacturer	Production 2004
	Fiat	126,124
	Iveco	51,930
	Citroen	46,077
	Peugeot	43,295
	Piaggio	6,717
	Bremach	280
	Iveco Trucks	32,225
Supplier companies	<p>Examples of suppliers in this cluster include:</p> <ul style="list-style-type: none"> • Brembo • Magnetti Marelli • Manuli Rubber • Pirelli • Teksid <p>In addition to the major Tier 1 suppliers, Italy hosts several hundred small and medium sized companies that are typically reliant on Fiat and function as Tier 2 and 3 companies.</p>	
Technology clusters	A Wireless cluster has been established around Turin to develop telematics applications for the automotive and other industries.	
Total investment in region/cluster	Piedmont is Italy's second largest region for foreign investment. Inward investment represents 13% of the national total.	

R & D	<p>Piedmont is the top Italian region for private investment in R&D</p> <p>It accounts for 25% of Italian private sector R&D</p> <p>It has over 200 public and private research centres and 6 science and technology parks for R&D</p>
Links/association with other regions/clusters	<p>This cluster has links and/or associations with the following clusters/regions:</p> <ul style="list-style-type: none"> • Network of Innovation Relay Centres (established by the EU) to promote transnational co-operation for developing and exploiting innovation, technology and research results. • ACE (Automotive Clusters in Europe)
Summary of govt/regional support	NA
Cluster Association name and contact details	<p>IRC Alps</p> <p>Camera di Commercio di Torino, Via San Francesco da Paola 24, 10123 Torino, Italy</p> <p>Tel: + 39 011 57 16325</p> <p>www.to.camcom.it</p>

Country	Poland																			
Region	Country coverage																			
Main city/cities	Warsaw, Poznan																			
Key Macro Economic data	Population: 38,557,984	<table border="1"> <thead> <tr> <th>Poland</th> <th>2003</th> <th>2004</th> <th>2005(F)</th> </tr> </thead> <tbody> <tr> <td>GDP Growth</td> <td>3.70</td> <td>5.30</td> <td>4.50</td> </tr> <tr> <td>GDP Per head (US\$)</td> <td>5440.66</td> <td>6279.65</td> <td>7923.65</td> </tr> <tr> <td>Inflation average (%)</td> <td>0.79</td> <td>3.58</td> <td>2.18</td> </tr> </tbody> </table>	Poland	2003	2004	2005(F)	GDP Growth	3.70	5.30	4.50	GDP Per head (US\$)	5440.66	6279.65	7923.65	Inflation average (%)	0.79	3.58	2.18		
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Cluster facts and figures	<p>A Lower Silesia cluster has recently been formed to look after the interests of the automotive industry in the region.</p> <p>An AUTO FORUM has been formed to act as the conference for automotive industry suppliers and to facilitate networking between members.</p> <p>The Auto Forum Club was founded in 2004 to create a co-operation platform for car manufacturing companies.</p> <p>Annual cluster turnover: € NA</p>																			

	Employees: NA												
Affiliates in Slovenia	Cluster affiliates in Poland include: n/a Cluster members include: n/a												
Vehicle Manufacturers	Details of the main vehicle manufacturers in this cluster: 7 manufacturers produce in Poland – 3 major producers: Fiat, GM and VW Passenger cars: <table border="1" data-bbox="589 743 1464 999"> <thead> <tr> <th>Group</th> <th>Marque</th> <th>2004 Production</th> </tr> </thead> <tbody> <tr> <td>Fiat</td> <td>Fiat</td> <td>307,150</td> </tr> <tr> <td>GM</td> <td>Opel</td> <td>116,600</td> </tr> <tr> <td></td> <td>Country Total</td> <td>423,750*</td> </tr> </tbody> </table> <p style="text-align: center;">excludes VW commercial vehicles</p> Light Commercial Vehicles: VW Production 2004: 59,314 Fiat Production 2004: 13,457 Andoria Production 2004: 2,457	Group	Marque	2004 Production	Fiat	Fiat	307,150	GM	Opel	116,600		Country Total	423,750*
Group	Marque	2004 Production											
Fiat	Fiat	307,150											
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	Country Total	423,750*											

	<p>Trucks:</p> <p>Star Production 2004: 544</p> <p>Jeicz Production 2004: 12</p> <p>Buses: Volvo</p>
Supplier companies	<p>Poland's supplier industry is not as well developed as other central European nations. The government has offered significant tax incentives in recent years which has attracted investment in the sector by multinationals.</p> <p>Examples of suppliers in this cluster include:</p> <ul style="list-style-type: none"> • Autoliv • Bosch • Bridgestone-Firestone • Goodyear • Delphi • Faurecia • Fiat-GM Powertrain • Isuzu Motors • Lear • Michelin • Toyota Motor Manufacturing Poland (engines and transmissions)
Technology clusters	n/a
Total investment in	In 2003 FDI in the automotive sector amounted to US\$ 6,584mn.

region/cluster	The main foreign investors are: Fiat, Daewoo, GM, Fiat-GM Powertrain, Volkswagen and Delphi Automotive systems.
R & D	n/a
Links/association with other regions/clusters	<p>This cluster has links and/or associations with the following clusters/regions:</p> <ul style="list-style-type: none"> • Partner with IRC (Innovation Relay Centre Network) • Bayern Innovativ & Baika
Summary of govt/regional support	<p>According to the Law on Financial Support for Investment of 20 March 2002 financial support for new investment projects can be granted to investors who satisfy one or more of the following conditions:</p> <ul style="list-style-type: none"> • Invest a minimum of € 10 million • Invest a minimum of € 500.000, where the investment involves the development or modernisation of an enterprise and provides a minimum of 100 jobs for five years • Create at least 20 new jobs for a minimum of 5 years • Introduce technological innovations • Make investments which improve the natural environment • Invest within an industrial or technology park <p>The maximum aid in the automotive sector granted in favour of projects involving over € 5 million of aid is equal to 30% of the corresponding regional aid intensity</p> <p>For small and medium-sized enterprises the maximum aid is increased by an additional 15 %</p>

Cluster Association name and contact details	
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Country	Portugal																			
Region	Between Braga and Setabul																			
Main city/cities	Braga: Oporto, Ovar and Mangualde Setabul; Lisbon, Palmela and Azumbuja																			
Key Macro Economic data	Population: 10,566,212	<table border="1"> <thead> <tr> <th>Portugal</th> <th>2003</th> <th>2004</th> <th>2005(F)</th> </tr> </thead> <tbody> <tr> <td>GDP Growth</td> <td>-1.14</td> <td>0.99</td> <td>na</td> </tr> <tr> <td>GDP Per head (US\$)</td> <td>14,167.44</td> <td>16,096.17</td> <td>na</td> </tr> <tr> <td>Inflation average (%)</td> <td>3.40</td> <td>2.40</td> <td>na</td> </tr> </tbody> </table>	Portugal	2003	2004	2005(F)	GDP Growth	-1.14	0.99	na	GDP Per head (US\$)	14,167.44	16,096.17	na	Inflation average (%)	3.40	2.40	na		
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GDP Per head (US\$)	14,167.44	16,096.17	na																	
Inflation average (%)	3.40	2.40	na																	
Cluster facts and figures	<ul style="list-style-type: none"> • No formal clusters have been identified in Portugal as in other countries studied. • The region between Barca and Setabul is the main automotive region and various regional development agencies actively promote their own regions to potential investors. • The two main trade associations are active in promoting the sector and liasing with the regions. 																			

Affiliates in Portugal	<p>Cluster affiliates in Portugal include: ACAP – the vehicle manufacturers association AFIA, Portugese Association of Automotive Suppliers</p> <p>Cluster members include:</p> <ul style="list-style-type: none"> • See below 																														
Vehicle Manufacturers	<p>Details of the main vehicle manufacturers in this cluster: 9 vehicle manufactures produce vehicles in Portugal</p> <p>Details of vehicle production in this cluster: Passenger cars:</p> <table border="1" data-bbox="589 826 1464 1283"> <thead> <tr> <th>Group</th> <th>Marque</th> <th>2004 Production</th> </tr> </thead> <tbody> <tr> <td>Ford</td> <td>Ford</td> <td>35,497</td> </tr> <tr> <td>GM</td> <td>Opel</td> <td>66,400</td> </tr> <tr> <td>PSA</td> <td>Citroën</td> <td>30,300</td> </tr> <tr> <td></td> <td>Peugeot</td> <td>21,000</td> </tr> <tr> <td>PSA Total</td> <td></td> <td>51,300</td> </tr> <tr> <td>VW</td> <td>Seat</td> <td>21,580</td> </tr> <tr> <td></td> <td>VW</td> <td>38,583</td> </tr> <tr> <td>VW Total</td> <td></td> <td>60,163</td> </tr> <tr> <td></td> <td>Country Total</td> <td>213,360</td> </tr> </tbody> </table>	Group	Marque	2004 Production	Ford	Ford	35,497	GM	Opel	66,400	PSA	Citroën	30,300		Peugeot	21,000	PSA Total		51,300	VW	Seat	21,580		VW	38,583	VW Total		60,163		Country Total	213,360
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	<p>Light Commercial Vehicles:</p> <p>Citroen Production 2004: 8,789</p> <p>Isuzu Production 2004: 10</p> <p>Mitsubishi Production 2004: 6,239</p> <p>Opel Production 2004: 46,382</p> <p>Peugeot Production 2004: 9,532</p> <p>Toyota Production 2004: 2,659</p> <p>Production in 2004: 286,971 (total Industry)</p>
<p>Supplier companies</p>	<p>In 2002, AFIA, the components industry association reported that 160 companies were active in the sector in Portugal.</p> <p>Turnover was stated as €4.122 bn</p> <p>Employees: 37,500 broken down by size of company as follows:</p> <ul style="list-style-type: none"> • 78% - 4000 + (employees) • 9% - 500 – 4000 • 12% - 250 - 500 <p>Export ratio: 64%</p> <p>Examples of suppliers in this cluster include:</p> <ul style="list-style-type: none"> • Continental • Delphi • Faurecia • Lear • Valeo

	<ul style="list-style-type: none"> • Visteon
Technology clusters	<p>The Centre for Excellence and Innovation in the Auto Industry (CEIIA) supports the development of technical know-how and strategic competence of companies active in the automotive sector.</p> <p>It identifies potential business, technological and financial synergies.</p>
Total investment in region/cluster	<p>Under the INAUTO programme, more than €7mn has been invested in creating the technological, research and structure for a fully developed automotive cluster in Portugal.</p> <p>INAUTO is a programme within CEIIA, created to promote cohesive practices and policies between Public Policy and the industry.</p>
R & D	n/a
Links/association with other regions/clusters	<p>This cluster has links and/or associations with the following clusters/regions: A cross border platform for the automotive industry covering Northern Portugal and the Northern Spanish region of Galicia</p> <p>Other associations include:</p> <ul style="list-style-type: none"> • CLEPA European Association of Automotive Suppliers • AFAC Argentina • SINDIPECAS Brazil • ACMA India • JAPIA Japan • INA Mexico • AMICA Morocco • MEMA/OESA USA

Summary of govt/regional support	n/a
Cluster Association name and contact details	AFIA Rua do Crasto, 190 4150 – 241 Porto Portugal Tel: + 351 226 172 668 Fax: + 351 226 101 877 www.afia-afia.pt

Country	Romania
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Region	Country coverage
Main city/cities	Arges, Dolj, Timiș
Definition of Region/Location and size	<p>Arges (Dacia and Aro)</p> <ul style="list-style-type: none"> - Located in the south of Romania - Employment: 15,000 people employed in the vehicle manufacturing sector - Population: 600,000 <p>Dolj (Daewoo)</p> <ul style="list-style-type: none"> - Located in the south of Romania - Roughly 3,000 people employed in the vehicle manufacturing sector - Population: 700,000 <p>Timișoara (Continental AG and other)</p> <ul style="list-style-type: none"> - Located in the west of Romania - Roughly 1,000 people employed in the component manufacturing sector - Population: 659 512
Key Macro Economic data	<ul style="list-style-type: none"> • Population: 22,329,977 • From 1991-2002 automotive industry employment has decreased from 125,000 to 83,000. • As a percentage of the total workforce in the industry, employment in the sector has increased from 3.6 % to 4.3 %. • The number of enterprises in the automotive sector has increased from 39 to 376. • Production in 2002 compared with 1991 fell from: 84,000 cars (town and off-road) to 66,000; 2,226 buses and vans to seven; 75 trolleybuses to nine; and 7,592 trucks to 440 • Romania is a net importer of vehicles 53,700 units (Imports: 73,100 – Exports: 19,400).

Vehicle Manufacturers	<p>Details of vehicle production in this cluster:</p> <ul style="list-style-type: none"> • 3 main vehicle producers: Dacia (owned by Renault), Daewoo Romania (owned by the Romanian Government licensing agreement with GM) and Aro (owned by Cross Lander). • DACIA and DAEWOO manufacture passenger cars and light commercial vehicles. ARO manufactures cross-country vehicles and light commercial vehicles. <p><i>1. Main motor vehicle manufacturers</i></p> <table border="1" data-bbox="589 635 1464 834"> <thead> <tr> <th>Group</th> <th>Marque</th> <th>2004 Production</th> </tr> </thead> <tbody> <tr> <td>Renault-Nissan</td> <td>Dacia</td> <td>64,963</td> </tr> <tr> <td></td> <td>Country Total</td> <td>64,963</td> </tr> </tbody> </table> <p><i>2. Production by types of vehicle (2004)</i></p> <table border="1" data-bbox="589 978 1816 1305"> <thead> <tr> <th>Type</th> <th>Units produced (2004)</th> </tr> </thead> <tbody> <tr> <td>Passenger cars</td> <td>98,997</td> </tr> <tr> <td>Light commercial vehicles</td> <td>22,946</td> </tr> <tr> <td>Commercial Vehicles > 7t</td> <td>242</td> </tr> <tr> <td>Buses</td> <td>0</td> </tr> <tr> <td>TOTAL</td> <td>122,185</td> </tr> </tbody> </table>	Group	Marque	2004 Production	Renault-Nissan	Dacia	64,963		Country Total	64,963	Type	Units produced (2004)	Passenger cars	98,997	Light commercial vehicles	22,946	Commercial Vehicles > 7t	242	Buses	0	TOTAL	122,185
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Supplier companies	<p>Supplier industry structure (2002)</p> <ul style="list-style-type: none"> According to Global Insight, the component manufacturing industry is highly vertically integrated and thus a majority of the components are made by original equipment manufacturers. <table border="1" data-bbox="591 488 1816 1018"> <thead> <tr> <th>Type</th> <th>Number of active firms</th> <th>Number of employees</th> </tr> </thead> <tbody> <tr> <td>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers</td> <td>29</td> <td>2,432</td> </tr> <tr> <td>Manufacture of parts and accessories for motor vehicles and their engines</td> <td>286</td> <td>38,160</td> </tr> <tr> <td>Manufacture of electrical equipment for engines and vehicles</td> <td>45</td> <td>15,383</td> </tr> <tr> <td>TOTAL</td> <td>360</td> <td>55,975</td> </tr> </tbody> </table>	Type	Number of active firms	Number of employees	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	29	2,432	Manufacture of parts and accessories for motor vehicles and their engines	286	38,160	Manufacture of electrical equipment for engines and vehicles	45	15,383	TOTAL	360	55,975
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Manufacture of parts and accessories for motor vehicles and their engines	286	38,160														
Manufacture of electrical equipment for engines and vehicles	45	15,383														
TOTAL	360	55,975														
Technology clusters	<ul style="list-style-type: none"> Bucharest region <ul style="list-style-type: none"> The main technology cluster can be found around Bucharest. One of the main industrial centres and transportation hubs of the Balkan region. As the most important city in Romania, Bucharest has a broad range of educational facilities. 															

	<ul style="list-style-type: none"> • Timisoara, capital of Timis County <ul style="list-style-type: none"> - The economic centre of the "Five West Romanian Region" (2 million inhabitants) - One of the most important business, cultural and scientific centers of Romania. - The level of training-education in Timisoara is higher than in the rest of the country. - 8 universities in the region (44 faculties) teaching about 47,000 students. - Automotive component suppliers include Continental AG and TRW Automotive. - Software industry represented by for example Siemens Automotive - Telecommunication industry represented by for example Alcatel
<p>Total investment in region/cluster</p>	<p>Investment in the Romania in total</p> <ul style="list-style-type: none"> • According to CIA World Factbook the gross fixed investments in the country amounted to 23% of the GDP in 2004, which corresponds to roughly €33 billion. <p>FDI in the region and Romania</p> <ul style="list-style-type: none"> • In 2004 total FDI in Romania amounted to €4 billion. • The value of total FDI in Arges county amounted to €740 million during 1991-2004. • For Bucharest the amount was around €4.9 billion during 1991-2004. • Large individual investments made in the automotive industry include: <ul style="list-style-type: none"> - Renault (Dacia) EUR 700 million with 300 more million over the next two years - Continental (tyres) EUR 220 million - Montupet (cylinder heads and other aluminium parts for Dacia) €120 million.
<p>R & D</p>	<p>R&D spending and activities</p> <ul style="list-style-type: none"> • For the country as a whole, R&D spending stands for less than 1 % of GDP.

Links/association with other regions/clusters	<ul style="list-style-type: none"> • ACAROM-CES: projects using national or European financing programs (FP6; LEONARDO; etc) in order to develop the automotive industry. • The partnership network of CLOE (“Clusters linked over Europe”): focuses on the management of industry clusters in several European regions in Germany, Austria, France, Sweden, Estonia and Romania, of which Timisoara region is part.
Summary of govt/regional support	Summary of government/regional support for companies in the region <ul style="list-style-type: none"> • The Romanian government decreased the tax for corporate profits from 25% to 16% in the beginning of 2005. • Companies are given tax exemptions when locating their business in the newly established industrial parks.
Cluster Association name and contact details	<i>No information available</i>

Country	Russia
Region	Samara region around Moscow
Main city/cities	Samara and Togliatti
Definition of Region/Location and size	<p>Definition and location of region The Samara region, part of the Volga district, 600 miles southeast of Moscow. The cities of</p> <p>Size of region</p> <ul style="list-style-type: none"> • Population of the Samara region: 3.3 million • The estimated annual turnover of the Russian automotive industry is \$6.5 billion. • Most of the industry is centred to the Samara region and its neighbouring regions.
Key Macro Economic data	<ul style="list-style-type: none"> • Population: 143,420,309 • About 60% of the annual turnover of the automotive industry is generated by car manufacturers, 25% by truck manufacturers and 15% by bus manufacturers. • The Samara region is one of the best regions in Russia in terms of living standards and FDI. • In terms of trade flows, the automotive industry is the third most important industry after mineral products and chemical products. • In the city of Togliatti, 17% of the 700,000 inhabitants are employed by AvtoVAZ.
Cluster facts and figures	There is no formal cluster
Affiliates in Russia	Cluster affiliates include: No information available

	Cluster members include: No information available		
Vehicle Manufacturers	Details of the main vehicle manufacturers in this cluster:		
	Company	Location	No of units/year 2004
	Avtotor (cars)	Kaliningrad	14,525
	AvtoVAZ (cars)	Togliatti	776,010
	Ford ZAO (cars)	Vsevolozshk (St. Petersburg)	29,703
	Ford ZAO (cars)	Volga	65,873
	GAZ (trucks, minibuses, SUVs)	Nizhniy Novgorod	137,362
	GM-AvtoVAZ (cars)	Togliatti	58,025
	Izhmash (cars)	Izhevsk	82,687
	Renault – Avtoframos (cars)	Moscow	517
	TagAZ – Hyundai	Rostov	30,000
	UAZ (SUVs)	Ulyanovsk	31,141
	Total		1.2 million
	Details of vehicle production in this cluster:		
<ul style="list-style-type: none"> Automotive industry is vertically integrated. OEMs produce 70% of the components in-house. The anticipated increased importance of the suppliers has attracted many global automotive suppliers to the region. Some 30 large suppliers are headquartered in the Samara region. AvtoVAZ has about 200 suppliers. Roughly 1.2 million vehicle units were produced in Russia in 2004. 830,000 of them were produced in Togliatti. 			

Supplier companies	<p>Examples of suppliers in this cluster include:</p> <p><i>Information to follow</i></p>
Technology clusters	<ul style="list-style-type: none"> • 59 research institutions in the Samara region. 71% special R&D institutions, 17% research departments of universities, 12% R&D departments of firms. • There are 25,400 researchers in the region. • AvtoVAZ Department of Development, cooperation between AvtoVAZ, GAZ and the world's auto industry. Located in Avtograd, Togliatti. • Other important research institutions are the Samara Aerospace University, R&D Centre Infotrans, OAO Motorostroitel, OAO Aviaagregat, CSKB and OAO SKMB.
Total investment in region/cluster	<p>Total investment is estimated at \$0.96 billion in 2001.</p> <p>FDI in the region</p> <ul style="list-style-type: none"> • FDI \$0.16 billion in 2004. • According to regional authorities, the automotive and spare parts industries have become a catalyst for a rise in foreign investment in Samara Region. • The presence of GM-AvtoVAZ in Samara Region has produced a multiplier effect in terms of FDI. • Russia has not experienced any significant influx of FDI into its automotive industry, while FDI was the most important force that transformed the passenger car industry in the rest of the Eastern Europe.

R & D	<p>R&D spending and activities</p> <ul style="list-style-type: none"> • 6 billion RRU annually • 45 % of the R&D spending are funded by firms, 35 % by government funds and 5 % by foreign investment. • 95 % of the research is carried out by the companies. • The IBRD has allocated \$17 million to reform the educational system in the Samara region.
Links/association with other regions/clusters	n/a
Summary of govt/regional support	<p><i>National level</i></p> <ul style="list-style-type: none"> • On a national level, the support to the automotive industry is considered quite weak among foreign investors. • In 2002, the Russian government increased the import duties on vehicles over 7 years old to stem the flow of imported cars that directly compete with AvtoVAZ. • The publication of the Automotive Development Concept in 2002, outlining the strategy for Russian Automotive Industry until 2010 is considered an abstract document (a form of protectionism) and of little value to foreign manufacturers. <p><i>Regional level</i></p> <ul style="list-style-type: none"> • The “Law on Investment in the Samara Oblast” allows the regional government to give tax breaks and other forms of government support to investors (including foreign) for up to 5 years. • Establishment of an industrial park outside Togliatti with the aim to attract international manufacturers of high-tech automotive components.

Cluster Association name and contact details	<i>To follow</i>

Country	Slovakia																			
Region	Country coverage																			
Main city/cities	Bratislava																			
Key Macro Economic data	Population: 5,431,363	<table border="1"> <thead> <tr> <th>Slovakia</th> <th>2003</th> <th>2004</th> <th>2005</th> </tr> </thead> <tbody> <tr> <td>GDP Growth</td> <td>4.46</td> <td>5.50</td> <td>4.96</td> </tr> <tr> <td>GDP Per head (US\$)</td> <td>6071.53</td> <td>7630.11</td> <td>9097.68</td> </tr> <tr> <td>Inflation average</td> <td>8.50</td> <td>7.50</td> <td>2.48</td> </tr> </tbody> </table>	Slovakia	2003	2004	2005	GDP Growth	4.46	5.50	4.96	GDP Per head (US\$)	6071.53	7630.11	9097.68	Inflation average	8.50	7.50	2.48		
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Inflation average	8.50	7.50	2.48																	
Cluster facts and figures	<ul style="list-style-type: none"> • Slovakia will be the world's largest per capita automotive producer by 2007 when new capacity comes on stream (see below) • The Automotive Industry is the key driver of the Slovak economy • Total automotive industry output in 2003: SK 278.8 billion (€7.15 billion) in 2003. • Estimate for 2010: €15 – 20 billion and 100,000 new jobs 																			
Affiliates in Slovakia	<ul style="list-style-type: none"> • Automotive Industry Association of the Slovak Republic (AIA SR) 																			
	Cluster Members																			

	See Below															
Vehicle Manufacturers	<p>Details of the main vehicle manufacturers in this cluster:</p> <ul style="list-style-type: none"> • 12 auto manufacturing plants within the Visegrad Four region by 2006. • In a 500 km radius of Bratislava 14 OEMs (excluding the Germans) will operate by 2007. <p>The main vehicle manufactures are:</p> <table border="1"> <thead> <tr> <th>Group</th> <th>Marque</th> <th>2004 Production</th> </tr> </thead> <tbody> <tr> <td>VW</td> <td>Seat</td> <td>20,499</td> </tr> <tr> <td></td> <td>VW</td> <td>160,979</td> </tr> <tr> <td>VW Total</td> <td></td> <td>181,478</td> </tr> <tr> <td></td> <td>Country Total</td> <td>181,478</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Hyundai Kia Motors and PSA will establish plants by 2007 • PSA and Kia will each have enough capacity to produce 300,000 cars per annum. • The sector has 54,700 employees 	Group	Marque	2004 Production	VW	Seat	20,499		VW	160,979	VW Total		181,478		Country Total	181,478
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	VW	160,979														
VW Total		181,478														
	Country Total	181,478														
Supplier companies	<p>There are more than 260 automotive suppliers and subcontractors.</p> <p>Examples of suppliers in this cluster include:</p> <p>The top ten suppliers in Slovakia include: Bosch, Delphi, Johnson Controls, Visteon, Lear, Magna, Valeo, TRW Automotive, US Steel and Dana</p> <ul style="list-style-type: none"> • Over 50 (fifty) Tier 1 and Tier 2 automotive suppliers in Slovakia, supplying clients all over 															

	<p>Europe and beyond</p> <p>Other big names include:</p> <ul style="list-style-type: none"> • Dura, Johns Manville, Taylor-Wharton, Harsco, Teleflex Automotive, Tower Automotive, Molex, US Steel Kosice, Plastic Omnium, 3M and Haden • Getrag Ford Transmission intends to start production of Ford gear boxes in 2007 <p>Components sector turnover 2003: SKK 104,777.7m</p>
Technology clusters	NA
Total investment in region/cluster	<ul style="list-style-type: none"> • Investment in the automotive industry in 2003: SKK 21.096 • Kia Motors, an affiliate of the South Korean carmaker Hyundai Motor Co will invest \$ 1.1 billion to build its first European plant in Silina • Future potential investors include Mazda, Honda, Toyota and Bridgestone.
R & D	n/a
Links/association with other regions/clusters	To follow
Summary of govt/regional support	<ul style="list-style-type: none"> • State Aid approval limited to 15% of eligible costs • The Slovakian Government has budgeted invested of SKK 3.824 bn in 2005 for KIA/Hyundai and PSA investments in Slovakia.

Association name and contact	Automotive Industry Association of the Slovak Republic Sabinovska 6 821 02 Bratislava 2 Slovak Republic Tel +421 2 48247951 Fax +421 2 48247952 Email: zapsr@zapsr.sk www.zapsr.sk
Sources:	www.zapsr.sk www.euro-innovation.org www.irc-slovakia.sk

Country	Slovenia																			
Region	Country coverage																			
Main city/cities	Ljubljana																			
Definition of Region/Location and size	The Automotive Cluster of Slovenia (ACS) covers the whole country.																			
Key Macro Economic data	Population: 2,011,070	<table border="1"> <thead> <tr> <th>Slovenia</th> <th>2003</th> <th>2004</th> <th>2005(F)</th> </tr> </thead> <tbody> <tr> <td>GDP Growth</td> <td>2.52</td> <td>4.57</td> <td>3.90</td> </tr> <tr> <td>GDP Per head (US\$)</td> <td>13,899.22</td> <td>16,110.29</td> <td>18,339.69</td> </tr> <tr> <td>Inflation average (%)</td> <td>5.57</td> <td>3.60</td> <td>3.08</td> </tr> </tbody> </table>	Slovenia	2003	2004	2005(F)	GDP Growth	2.52	4.57	3.90	GDP Per head (US\$)	13,899.22	16,110.29	18,339.69	Inflation average (%)	5.57	3.60	3.08		
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Inflation average (%)	5.57	3.60	3.08																	
Cluster facts and figures	Cluster founded: 2001 Annual cluster turnover: €2 billion 80% of turnover comes from export. Together with car production, it represents approx. 6% of GDP.																			

	<p>Employees: 16,800 with 2.000 researchers</p> <ul style="list-style-type: none"> • In 2003, ACS comprised 22 companies and 5 research institutions and faculties • Today, ACS has 50 members, of which 43 are companies and 7 are R&D institutions
<p>Affiliates in Slovenia</p>	<p>Cluster affiliates in Slovenia include:</p> <ul style="list-style-type: none"> • Plastehnik (Tool making and Plastics association) • Micro Electronics cluster <p>Cluster members include:</p> <ul style="list-style-type: none"> • Iskra • Magna Steyr • Prevent • Revoz-Renault • Saturnus • Sava Tires • Scania • Volvo
<p>Vehicle Manufacturers</p>	<p>Details of the main vehicle manufacturers in this cluster:</p> <p>Renault is the only vehicle manufacturer in Slovenia. (Revoz Renault)</p> <p>Details of vehicle production in this cluster:</p> <p>Passenger cars at Renault's Novo Mesto plant</p>

	<p>Production in 2004:</p> <table border="1"> <thead> <tr> <th>Group</th> <th>Marque</th> <th>2004 Production</th> </tr> </thead> <tbody> <tr> <td>Renault-Nissan</td> <td>Renault</td> <td>131,761</td> </tr> <tr> <td></td> <td>Country Total</td> <td>131,761</td> </tr> </tbody> </table>	Group	Marque	2004 Production	Renault-Nissan	Renault	131,761		Country Total	131,761
Group	Marque	2004 Production								
Renault-Nissan	Renault	131,761								
	Country Total	131,761								
Supplier companies	<p>Slovenia has a small supplier base</p> <p>Examples of suppliers in this cluster include:</p> <ul style="list-style-type: none"> • Cimosa : Braking systems and engine components • Goodyear-Sava: Tyres • Prevent: Car seats, interiors 									
Technology clusters	None known									
Total investment in region/cluster	In 2003, SIT 260m									
R & D	n/a									
Links/association with other regions/clusters	<p>This cluster has links and/or associations with the following clusters/regions:</p> <ul style="list-style-type: none"> • ACS and NAPA are forming a common engineering centre for technology transfer. • CLEPA 									

	<ul style="list-style-type: none"> • NPAK in Moscow. • Serbian Auto Cluster • Slovenian Automotive Component Manufacturers Association (referred to as the Klub)
Summary of govt/regional support	Development incentives for the cluster from the Ministry of Economic Affairs totalled SIT 100mn in 2003
Cluster Association name and contact details	<p>ACS, Automotive Cluster of Slovenia Dimiceva 9 1000 Ljubljana</p> <p>Tel: +386 1 2351 735 Fax: + 386 1 2361733 Email: info@acs-giz.si Website: www.acs-giz.si</p>

Country	Sweden
Region	West Sweden: includes Västra Götaland (Fyrbodalen, Skaraborg, Sjuhärad and Gothenburg), and parts of Värmland
Main city/cities	Gothenburg, Trollhattan, Skövde
Definition of Region/Location and size	<p>The West Sweden region includes the regions of Västra Götaland (Fyrbodalen, Skaraborg, Sjuhärad and Gothenburg), and parts of Värmland.</p> <p>Size of region</p> <ul style="list-style-type: none"> • Population: 1.6 million • The automotive industry consists of around 210 companies. Those companies employ 53,000 people.
Key Macro Economic data	<ul style="list-style-type: none"> • Population: 9,001,774 • In 2004, the automotive industry in Sweden employed 140,000 people, 67,500 among the OEMs, 72,500 among the suppliers. • In total the automotive industry accounts for 9% of total private sector employment. • In 2004, exports accounted for 14% of total Swedish exports. • In 2004, the automotive industry accounted for 21% of total Swedish industry machinery and equipment investment. • 95% of the trucks and 85% of the private cars produced in Sweden exported. In addition, a significant volume of components for trucks and buses are also exported. This makes the industry the greatest export business in Sweden.
Cluster facts and	No information available

figures																															
Affiliates in Sweden	<i>No information available</i>																														
Vehicle Manufacturers	<ul style="list-style-type: none"> • 300,000 vehicles are produced each year in Sweden. • There are 13 OEMs in West Sweden, which is equivalent to about 6% of the total number of companies (210). • About 30% of the companies are owned by foreign investors. In terms of employees, foreign-owned companies represent 60% of the industry. <p>Vehicle manufacturer employment:</p> <table border="1"> <thead> <tr> <th>Company</th> <th>Location</th> <th>No of employees</th> </tr> </thead> <tbody> <tr> <td>Volvo Cars Corporation</td> <td>Göteborg</td> <td>12,700</td> </tr> <tr> <td>SAAB Automobile AB</td> <td>Trollhättan</td> <td>6,200</td> </tr> <tr> <td>Volvo Trucks AB</td> <td>Göteborg</td> <td>3,500</td> </tr> <tr> <td>Volvo Powertrain Corp</td> <td>Skövde</td> <td>2,730</td> </tr> <tr> <td>Volvo Car Corporation Engine</td> <td>Skövde</td> <td>2,000</td> </tr> </tbody> </table> <p>Passenger car production in 2004:</p> <table border="1"> <thead> <tr> <th>Group</th> <th>Marque</th> <th>2004 Production</th> </tr> </thead> <tbody> <tr> <td>Ford</td> <td>Volvo</td> <td>233,336</td> </tr> <tr> <td>GM</td> <td>Saab</td> <td>102,019</td> </tr> <tr> <td></td> <td>Country Total</td> <td>335,355</td> </tr> </tbody> </table>	Company	Location	No of employees	Volvo Cars Corporation	Göteborg	12,700	SAAB Automobile AB	Trollhättan	6,200	Volvo Trucks AB	Göteborg	3,500	Volvo Powertrain Corp	Skövde	2,730	Volvo Car Corporation Engine	Skövde	2,000	Group	Marque	2004 Production	Ford	Volvo	233,336	GM	Saab	102,019		Country Total	335,355
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Supplier companies	<p>Supplier structure</p> <table border="1" data-bbox="589 419 1794 639"> <thead> <tr> <th data-bbox="589 419 1077 475">Type of Company</th> <th data-bbox="1077 419 1485 475">No of companies</th> <th data-bbox="1485 419 1794 475">No of employees</th> </tr> </thead> <tbody> <tr> <td data-bbox="589 475 1077 531">Tier 1/2/3-suppliers</td> <td data-bbox="1077 475 1485 531">122</td> <td data-bbox="1485 475 1794 531">14 300</td> </tr> <tr> <td data-bbox="589 531 1077 587">Non-automotive related products</td> <td data-bbox="1077 531 1485 587">52</td> <td data-bbox="1485 531 1794 587">3 700</td> </tr> <tr> <td data-bbox="589 587 1077 639">Consultants</td> <td data-bbox="1077 587 1485 639">23</td> <td data-bbox="1485 587 1794 639">3 700</td> </tr> </tbody> </table> <p>Examples of the main automotive suppliers in Sweden include:</p> <ul data-bbox="636 743 1279 775" style="list-style-type: none"> • Autoliv Sverige, Finnveden, Lear and SKF 	Type of Company	No of companies	No of employees	Tier 1/2/3-suppliers	122	14 300	Non-automotive related products	52	3 700	Consultants	23	3 700
Type of Company	No of companies	No of employees											
Tier 1/2/3-suppliers	122	14 300											
Non-automotive related products	52	3 700											
Consultants	23	3 700											
Technology clusters	<ul data-bbox="589 799 1966 1010" style="list-style-type: none"> • Göteborg is the biggest cluster in the region consisting of Lindholmen Science Park, Göteborg University and Chalmers. • Innovatum (science park in Trollhättan) • Universities in Karlstad, Skövde and Trollhättan/Uddevalla. • Several other research institutes related to the automotive industry are located in the region. 												
Total investment in region/cluster	<p>The total investment in West Sweden (all industries) amounted to 85 billion SEK in 2003.</p> <p>FDI in the region</p> <ul data-bbox="589 1169 1944 1337" style="list-style-type: none"> • Net FDI to Sweden amounted to 93.6 billion SEK in 2004. • Figure for regional FDI not available. • According to UNCTAD, Sweden's position is declining in terms of FDI. In 1995, Sweden was ranked number 24. However, in 2004, Sweden had made a serious plunge to number 93. 												

R & D	<p>R&D spending and activities</p> <ul style="list-style-type: none"> • The vehicle industry accounted for 27 % of the total industry R&D spendings in 2003. • 30 % of the people employed in R&D were found in the automotive industry. <p>Public spending on R&D</p> <table border="1" data-bbox="591 596 1816 1034"> <thead> <tr> <th data-bbox="591 596 1200 651">Project</th> <th data-bbox="1200 596 1816 651">Total amount</th> </tr> </thead> <tbody> <tr> <td data-bbox="591 651 1200 705">Trollhättan-package</td> <td data-bbox="1200 651 1816 705">860 million over four years</td> </tr> <tr> <td data-bbox="591 705 1200 759">AutoComRegion</td> <td data-bbox="1200 705 1816 759">200 million</td> </tr> <tr> <td data-bbox="591 759 1200 813">The vehicle research program</td> <td data-bbox="1200 759 1816 813">100 million</td> </tr> <tr> <td data-bbox="591 813 1200 868">Green car</td> <td data-bbox="1200 813 1816 868">1 670 million</td> </tr> <tr> <td data-bbox="591 868 1200 922">Emissionresearchprogram</td> <td data-bbox="1200 868 1816 922">140 – 205 million</td> </tr> <tr> <td data-bbox="591 922 1200 976">IVSS-program</td> <td data-bbox="1200 922 1816 976">640 million</td> </tr> <tr> <td data-bbox="591 976 1200 1034">TOTAL</td> <td data-bbox="1200 976 1816 1034">3 610 – 3 675 million SEK</td> </tr> </tbody> </table> <p>Private spending on R&D</p> <ul style="list-style-type: none"> • ABVolvo: 6,7 billion SEK (cars, trucks, buses, construction equipment) • SAAB Automobile: 3,9 billion SEK • Information from Volvo Cars not available. • General Motors will open its tenth research center in Trollhättan. The company will double its research budget in Sweden from 50 to 100 million SEK up to year 2008. 	Project	Total amount	Trollhättan-package	860 million over four years	AutoComRegion	200 million	The vehicle research program	100 million	Green car	1 670 million	Emissionresearchprogram	140 – 205 million	IVSS-program	640 million	TOTAL	3 610 – 3 675 million SEK
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Links/association with other regions/clusters	Cars 21, Biofuels for transport, EU transportation research, FP6 and The European Road Transport Research Advisory Council (ERTRAC)														
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Cluster Association name and contact details	Automotive Sweden Norra Hamngatan 14 SE-411 14 Gothenburg Tel: +46 31 61 24 29 www.automotivesweden.se														