

**Zeitschrift:** Trans : Publikationsreihe des Fachvereins der Studierenden am Departement Architektur der ETH Zürich

**Herausgeber:** Departement Architektur der ETH Zürich

**Band:** - (2009)

**Heft:** 15

**Rubrik:** Mobiclone

#### **Nutzungsbedingungen**

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

#### **Conditions d'utilisation**

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

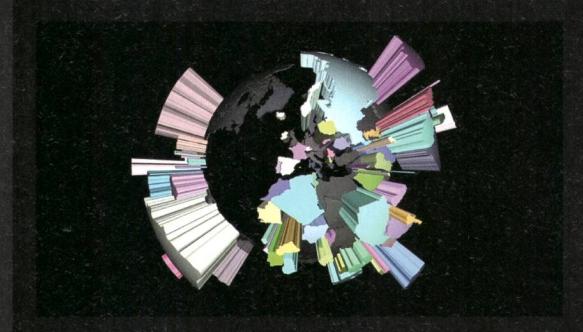
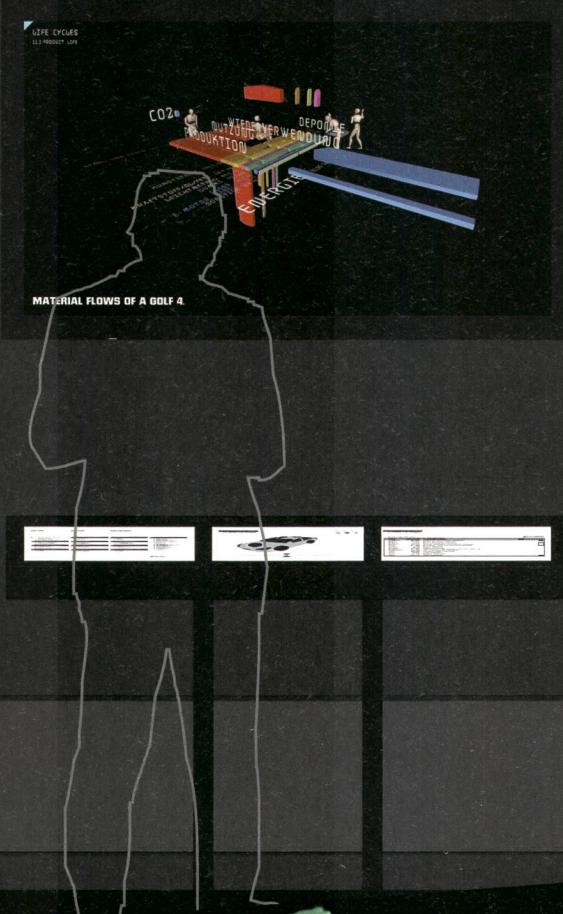
#### **Terms of use**

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

**Download PDF:** 17.01.2026

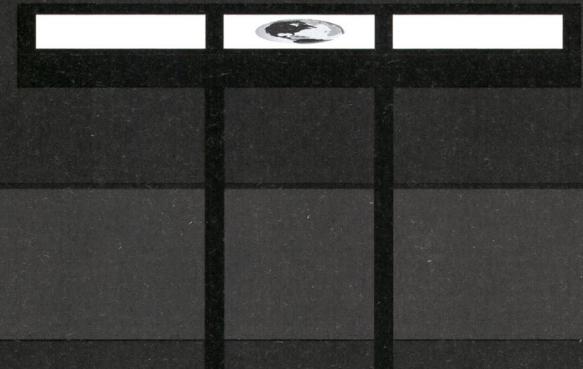
**ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>**

by Hosoya Schaefer Architects



FRONSCREEN: LCD Wall Display Screen

DASHBOARD: Three touch screens



TS1: Theme selection

TS2: Topic navigation

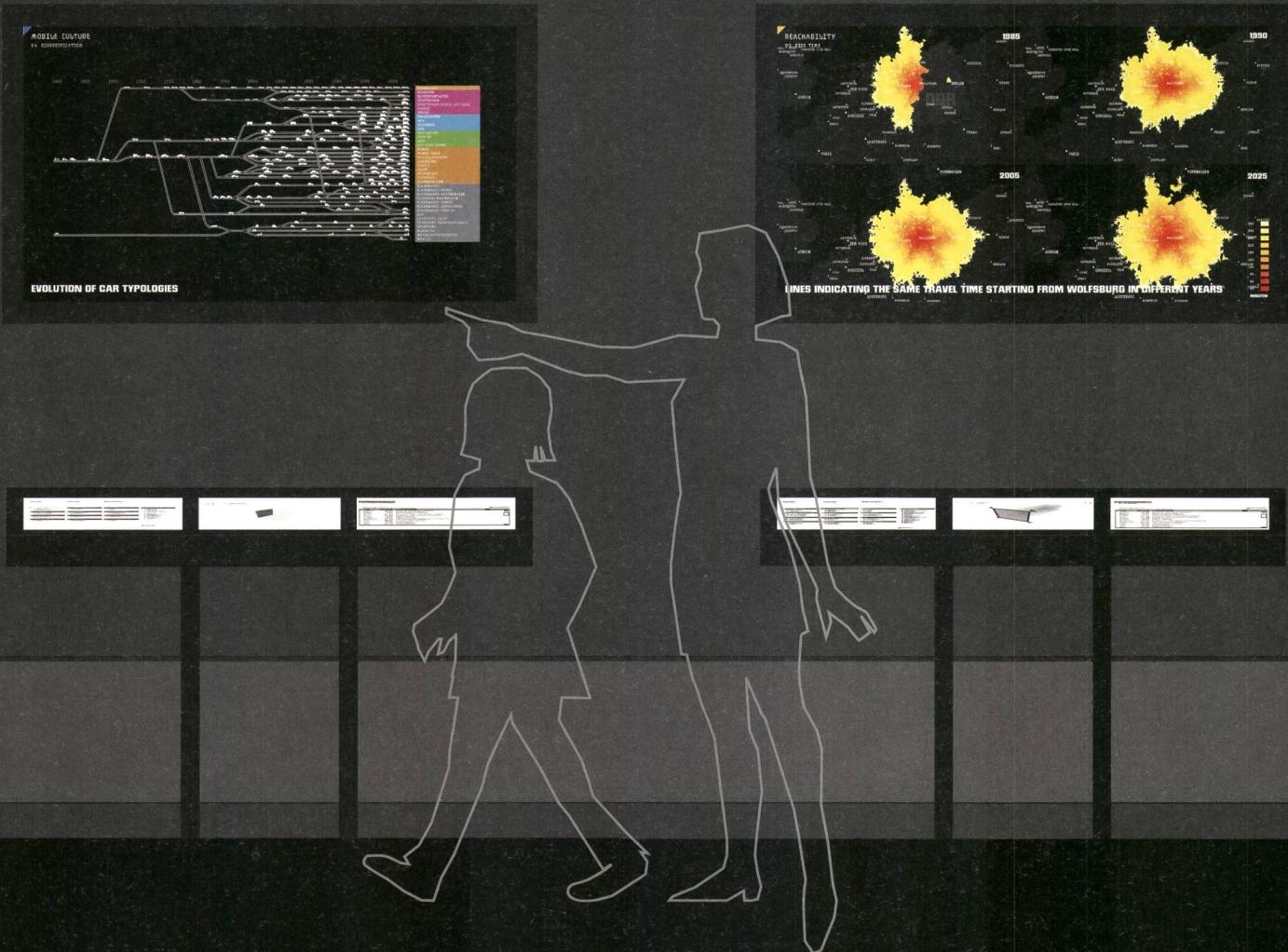
TS3: Text and data info



Mobiglobe is a research project and media installation for Autostadt in Wolfsburg, the theme park, and communications platform of the Volkswagen Group. The installation, created by Hosoya Schaefer Architects in Zürich in collaboration with Shiftcontrol, Copenhagen, and Buro Destruct Berne, shows topics of auto-mobility in a wide range of areas from 'highway city' to 'oil world.' With interactive, three-dimensional data graphics driven by a game engine, the installation aims to convey the contemporary dilemma between increasing comfort, freedom and safety in the individual experience of a car on the one hand, and the increasingly problematic urban and global effects on the other, especially when faced with new demands in emerging countries.

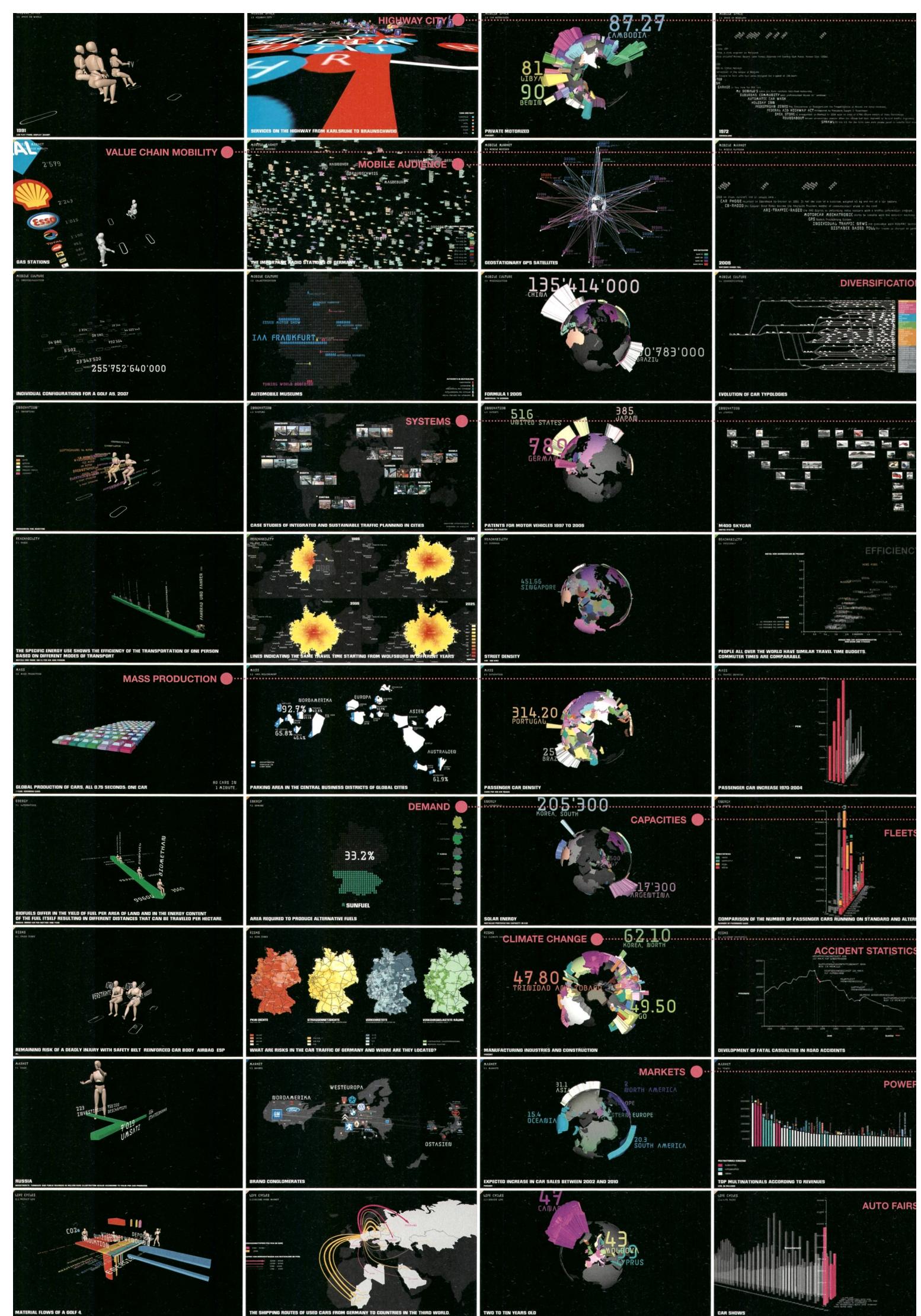


# NA OF AUTOMOBILITY



Concept, research, art direction, and production: **Hosoya Schaefer Architects, Zürich**: Markus Schaefer, Hiromi Hosoya, Isabelle Bentz and Yann Gramegna, Tim Rieniets, Thomas Kägi, Hyuck Jin Yoon, Jeanette Beck, Sandra Sands, Magnus Gabrielsen  
3D application development and application integration: **Shiftcontrol, Copenhagen**: Jorgen Skogmo, Patrik Svensson, and Henrik Malmgren  
Graphic consulting, style guide, typography: **Buro Destruct, Bern**: Lopetz and Heiwid  
Installation design: Ralph Applebaum Associates, New York  
Sound: Nik Schäfer, Zürich  
Completion: November, 2006

Location: Wolfsburg, Germany  
Client: Autostadt, Wolfsburg



## FROM INDIVIDUAL EXPERIENCE TO GLOBAL EFFECTS

The topics are organized in three large chapters (culture, economy and system) and twelve themes ranging from mobile space to fuel. Each theme again is examined in the scale of the car, the region, the world and time. Throughout the themes, the project intends to show the link between individual experience and global effects.

Since its invention the car has always been about more than just movement. The automobile and auto-mobility have brought about a whole range of phenomena that, to a large extent, define our society.

Mobility not only makes space accessible, it also creates its own spaces. The increase in everyday mobility has transformed the automobile and its infrastructure into parallel universes at the scale of the car, the streetscape or the **highway city**. Like a marketplace, the car is at the intersection of diverse **value chains** and **information flows**.

Yet the car's technological basis has hardly changed since its inception. The car evolved from an industrial **mass product** to an increasingly differentiated product for ever more finely grained consumer **segments and lifestyles**. However, the one product in human history that has most profoundly affected our personal reach and urban environment has at the same time never undergone a radical reinvention.

Enabled by industrialization and mass consumption, the car plays a central role in our culture. It is a product for **conspicuous consumption** and for many represents the very progress in culture and technology.

In **many places** in the world, life without a car is not thinkable or worse, as in the large suburban developments in the industrialized nations, not possible.

While cars are getting more **secure**, comfortable and attractive for individuals, on a global level auto-mobility reaches its limits. Global risks, like **climate change** and **peak oil**, are becoming apparent.

While **resources** and spaces are becoming scarce, there are nine multinational car companies and nine oil corporations among the **sixty largest companies**, by turnover, in the world.

Even though large **oil reserves** remain, demand shows no sign of slowing its exponential growth. And although shrinking reserves make the search for **alternative fuels** increasingly urgent, the oil dependency only grows more acute. Conflicts are certain to arise once decreasing reserves meet increasing demands.

Alternative fuels do not yet provide the efficiencies to be an effective replacement for fossil fuels nor are they **widely used**.

In order for individual mobility to retain the role it has today, mobility needs to be reinvented fundamentally. New **efficiencies**, multi-modal transport systems, energy sources, behaviors and cultural values need to be developed, especially when faced with the huge potential demands in **emergent economic powers** like China and India.

For cities to function, access to resources, jobs, ideas or people is essential. It is critical to envision a future where access is provided by spatial and programmatic density more than by ever increasing levels of individual mobility.

# 12. OIL

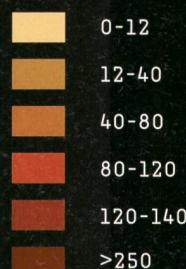
## 12.1 OIL CITY

### NORWAY

### GREAT BRITAIN

#### BARRELS (in Billions)

1 US BARREL = 158.9 Liters



#### OECD

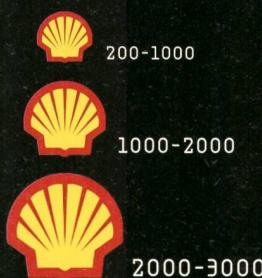
ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

#### PIPELINES

— EXISTING  
— PROJECTED

#### GAS STATIONS

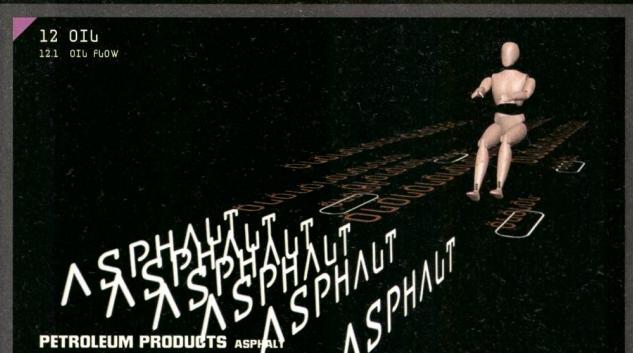
NUMBER PER COUNTRY



#### OIL FIELDS



#### OIL FLOW



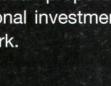
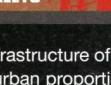
Cars are dependent on oil not only for fuel, but as an essential ingredient in synthetic products, like tires or gaskets, plastics or lubricants.

### NORWAY

STATOIL



ExxonMobil



12 OIL

12.1 OIL FLOW

12.2 OIL CITY

12.3 OIL TRADE

12.4 OIL ENERGY

12.5 OIL CONSUMPTION

12.6 OIL SAVING

12.7 OIL INVESTMENT

12.8 OIL INNOVATION

12.9 OIL POLICY

12.10 OIL FUTURE

12.11 OIL LEADERS

12.12 OIL CHALLENGES

12.13 OIL OUTLOOK

12.14 OIL INFLUENCE

12.15 OIL INFLUENCE

12.16 OIL INFLUENCE

12.17 OIL INFLUENCE

12.18 OIL INFLUENCE

12.19 OIL INFLUENCE

12.20 OIL INFLUENCE

12.21 OIL INFLUENCE

12.22 OIL INFLUENCE

12.23 OIL INFLUENCE

12.24 OIL INFLUENCE

12.25 OIL INFLUENCE

12.26 OIL INFLUENCE

12.27 OIL INFLUENCE

12.28 OIL INFLUENCE

12.29 OIL INFLUENCE

12.30 OIL INFLUENCE

12.31 OIL INFLUENCE

12.32 OIL INFLUENCE

12.33 OIL INFLUENCE

12.34 OIL INFLUENCE

12.35 OIL INFLUENCE

12.36 OIL INFLUENCE

12.37 OIL INFLUENCE

12.38 OIL INFLUENCE

12.39 OIL INFLUENCE

12.40 OIL INFLUENCE

12.41 OIL INFLUENCE

12.42 OIL INFLUENCE

12.43 OIL INFLUENCE

12.44 OIL INFLUENCE

12.45 OIL INFLUENCE

12.46 OIL INFLUENCE

12.47 OIL INFLUENCE

12.48 OIL INFLUENCE

12.49 OIL INFLUENCE

12.50 OIL INFLUENCE

12.51 OIL INFLUENCE

12.52 OIL INFLUENCE

12.53 OIL INFLUENCE

12.54 OIL INFLUENCE

12.55 OIL INFLUENCE

12.56 OIL INFLUENCE

12.57 OIL INFLUENCE

12.58 OIL INFLUENCE

12.59 OIL INFLUENCE

12.60 OIL INFLUENCE

12.61 OIL INFLUENCE

12.62 OIL INFLUENCE

12.63 OIL INFLUENCE

12.64 OIL INFLUENCE

12.65 OIL INFLUENCE

12.66 OIL INFLUENCE

12.67 OIL INFLUENCE

12.68 OIL INFLUENCE

12.69 OIL INFLUENCE

12.70 OIL INFLUENCE

12.71 OIL INFLUENCE

12.72 OIL INFLUENCE

12.73 OIL INFLUENCE

12.74 OIL INFLUENCE

12.75 OIL INFLUENCE

12.76 OIL INFLUENCE

12.77 OIL INFLUENCE

12.78 OIL INFLUENCE

12.79 OIL INFLUENCE

12.80 OIL INFLUENCE

12.81 OIL INFLUENCE

12.82 OIL INFLUENCE

12.83 OIL INFLUENCE

12.84 OIL INFLUENCE

12.85 OIL INFLUENCE

12.86 OIL INFLUENCE

12.87 OIL INFLUENCE

12.88 OIL INFLUENCE

12.89 OIL INFLUENCE

12.90 OIL INFLUENCE

12.91 OIL INFLUENCE

12.92 OIL INFLUENCE

12.93 OIL INFLUENCE

12.94 OIL INFLUENCE

12.95 OIL INFLUENCE

12.96 OIL INFLUENCE

12.97 OIL INFLUENCE

12.98 OIL INFLUENCE

12.99 OIL INFLUENCE

12.100 OIL INFLUENCE

12.101 OIL INFLUENCE

12.102 OIL INFLUENCE

12.103 OIL INFLUENCE

12.104 OIL INFLUENCE

12.105 OIL INFLUENCE

12.106 OIL INFLUENCE

12.107 OIL INFLUENCE

12.108 OIL INFLUENCE

12.109 OIL INFLUENCE

12.110 OIL INFLUENCE

12.111 OIL INFLUENCE

12.112 OIL INFLUENCE

12.113 OIL INFLUENCE

12.114 OIL INFLUENCE

12.115 OIL INFLUENCE

12.116 OIL INFLUENCE

12.117 OIL INFLUENCE

12.118 OIL INFLUENCE

12.119 OIL INFLUENCE

12.120 OIL INFLUENCE

12.121 OIL INFLUENCE

12.122 OIL INFLUENCE

12.123 OIL INFLUENCE

12.124 OIL INFLUENCE

12.125 OIL INFLUENCE

12.126 OIL INFLUENCE

12.127 OIL INFLUENCE

12.128 OIL INFLUENCE

12.129 OIL INFLUENCE

12.130 OIL INFLUENCE

12.131 OIL INFLUENCE

12.132 OIL INFLUENCE

12.133 OIL INFLUENCE

12.134 OIL INFLUENCE

12.135 OIL INFLUENCE

12.136 OIL INFLUENCE

12.137 OIL INFLUENCE

12.138 OIL INFLUENCE

12.139 OIL INFLUENCE

12.140 OIL INFLUENCE

12.141 OIL INFLUENCE

12.142 OIL INFLUENCE

12.143 OIL INFLUENCE

12.144 OIL INFLUENCE

12.145 OIL INFLUENCE

12.146 OIL INFLUENCE

12.147 OIL INFLUENCE

12.148 OIL INFLUENCE

12.149 OIL INFLUENCE

12.150 OIL INFLUENCE

12.151 OIL INFLUENCE

12.152 OIL INFLUENCE

12.153 OIL INFLUENCE

12.154 OIL INFLUENCE

12.155 OIL INFLUENCE

12.156 OIL INFLUENCE

12.157 OIL INFLUENCE

12.158 OIL INFLUENCE

12.159 OIL INFLUENCE

12.160 OIL INFLUENCE

12.161 OIL INFLUENCE

12.162 OIL INFLUENCE

12.163 OIL INFLUENCE

12.164 OIL INFLUENCE

12.165 OIL INFLUENCE

12.166 OIL INFLUENCE

12.167 OIL INFLUENCE

12.168 OIL INFLUENCE

12.169 OIL INFLUENCE

12.170 OIL INFLUENCE

12.171 OIL INFLUENCE

12.172 OIL INFLUENCE

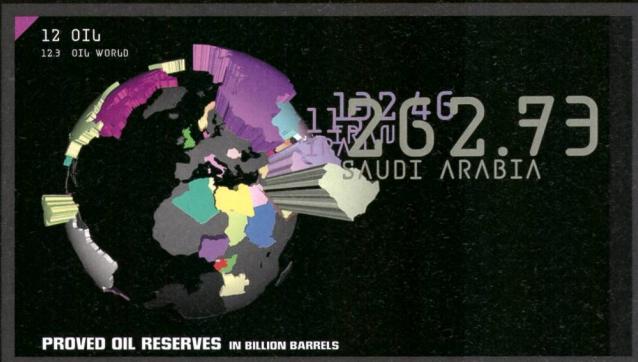
12.173 OIL INFLUENCE

12.17

# RUSSIAN FEDERATION

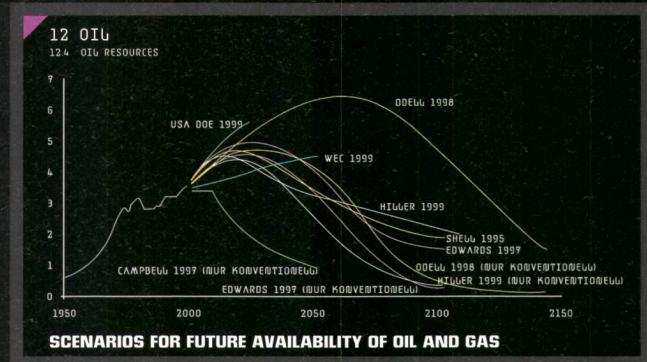


## OIL WORLD



An overview over fossil fuel reserves, production, and consumption worldwide shows their uneven distribution. It also gives an idea about their flows and choke points.

## OIL RESOURCES



Opinions differ as to when we will run out of oil. Shown here are reserves when extracting oil with conventional methods, respectively methods that are not commonly used yet. Even though large reserves remain, demand shows no sign of slowing its exponential growth. Conflicts are certain to arise once decreasing reserves intersect with increasing demands.