

Fraunhofer Profile in 2004



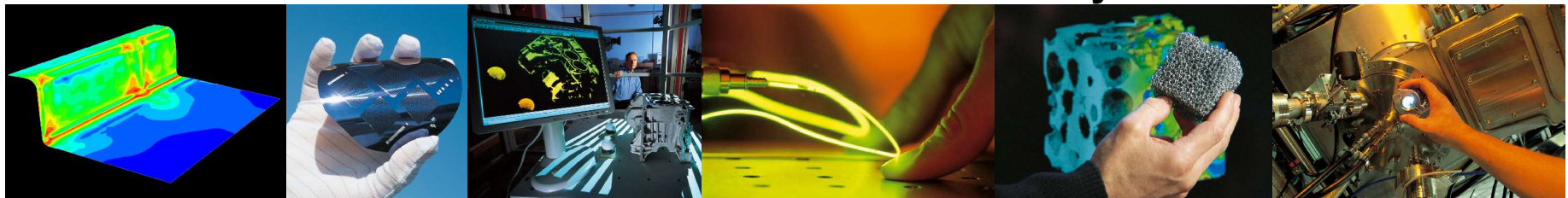
58 institutes

12 700 employees

7 Alliances

€ 1 billion research budget

- **Microelectronics**
- **Production**
- **Information and Communication Technology**
- **Materials and Components**
- **Life Sciences**
- **Surface Technology and Photonics**
- **Defense and Security Research**



ZV-A2/ Dez 03



Fraunhofer Gesellschaft

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Study: Developing cars in Germany - how secure is the future?

“For insiders its an open secret: the costs of warranty of the german premium producers has reached a level, that sets the executive boards under considerable pressure. Start-up problems of production processes, call-backs and unsatisfactory results in customer satisfaction surveys contribute to quality being a point of concern in the companies” (Introduction, from German)

Is 30% more efficiency possible?



Fraunhofer
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Arbeitswirtschaft und
Organisation

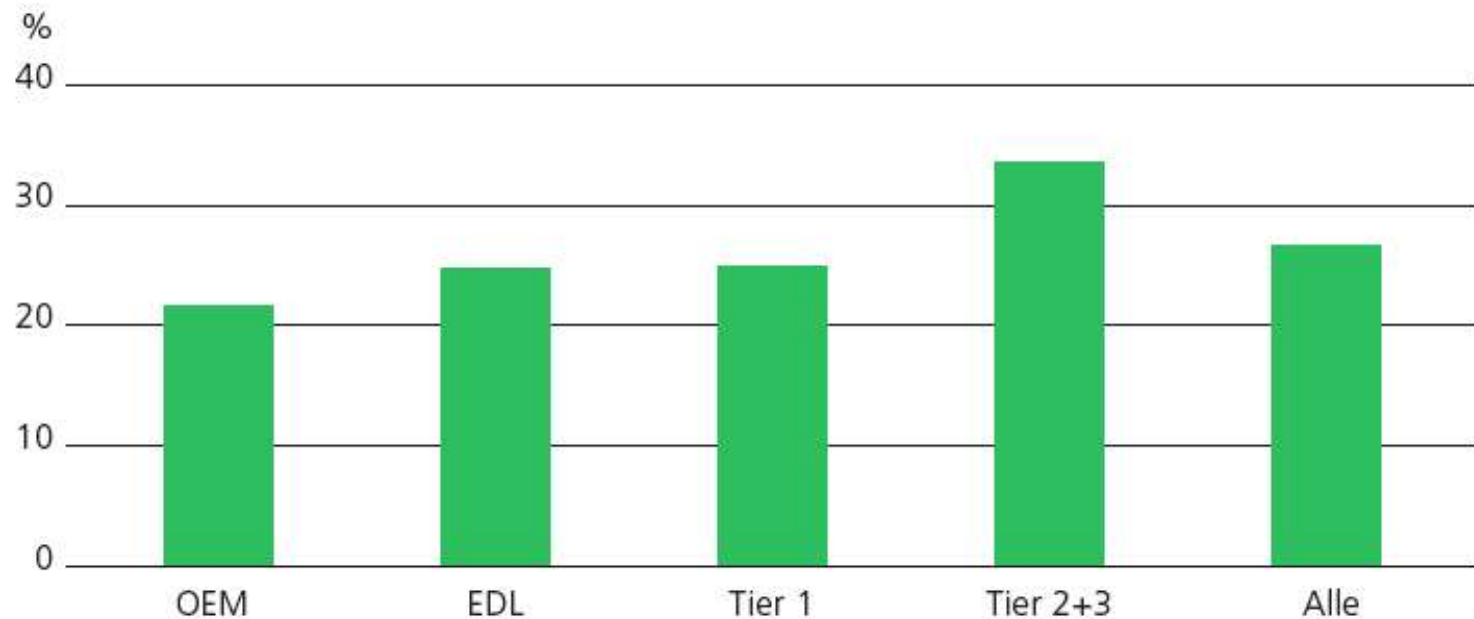
PROMIND

MVI
GROUP

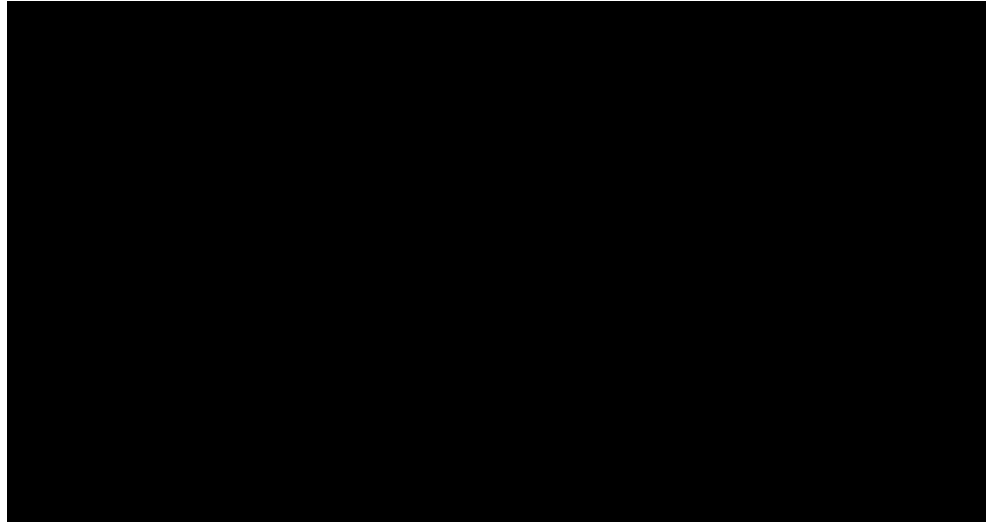


Fraunhofer
Gesellschaft

Optimisation potential in the German automotive industry



Light and shadow in Germany



Source: ADAC
PKZ = breakdowns per 1.000 cars

Rang Juni 2004	Marke	Gesamt PKZ Juni 2004	Gesamt PKZ Juni 2003
1	Mazda	7,7	11,5
2	Toyota	8,1	10,3
3	Subaru	8,1	12,4
4	Daihatsu	8,2	15,8
5	Honda	8,4	11,1
6	Suzuki	9,3	13,9
7	Mitsubishi	10,8	16,7
8	Audi	11,3	15,4
9	BMW	12,8	20,3
10	VW	13,6	18,9
11	Mercedes	14,7	22,2
12	Nissan	14,8	18,1
13	Smart	15,3	17,8
14	Porsche	15,7	12,6
15	Ford	16,0	21,6
16	Opel	16,4	23,9
17	Seat	17,7	24,5



Light and shadow in Japan

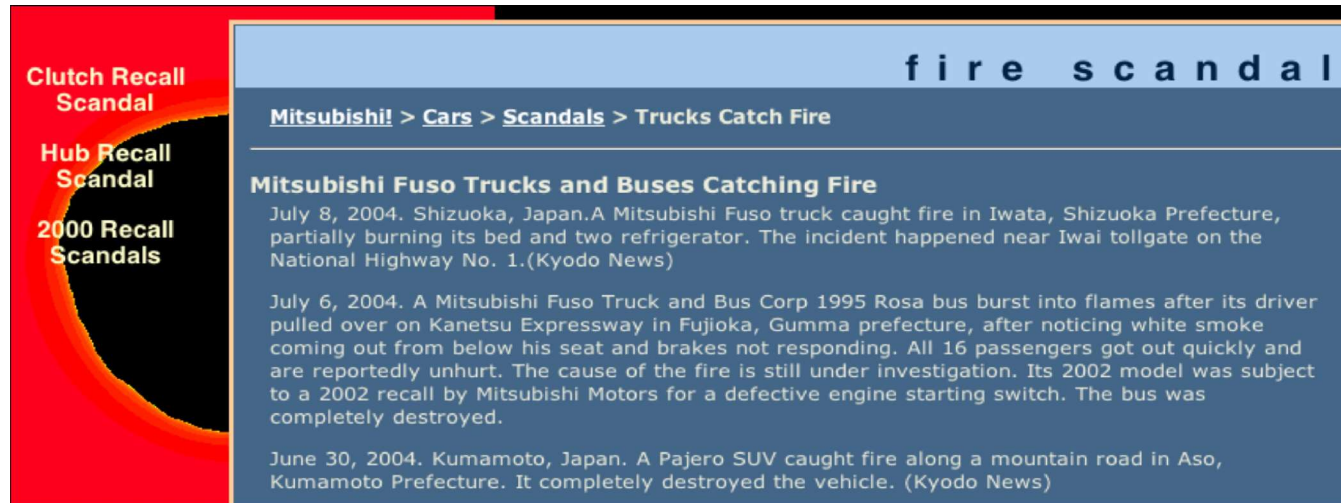
TOYOTA

May 11, 2004

Toyota Reports Record Year-End Results

Higher Vehicle Sales in All Regions Play Key Role

(All financial information has been prepared in accordance with accounting America (U.S. GAAP). Unconsolidated figures are reported according to Japa



The screenshot shows a news article titled "fire scandal" with a sub-header "Mitsubishi! > Cars > Scandals > Trucks Catch Fire". The main headline is "Mitsubishi Fuso Trucks and Buses Catching Fire". The article contains three paragraphs detailing fire incidents involving Mitsubishi vehicles in Japan in July and June 2004. On the left side of the screenshot, there is a red sidebar with a circular graphic and the text "Clutch Recall Scandal", "Hub Recall Scandal", and "2000 Recall Scandals".

Clutch Recall Scandal

Hub Recall Scandal

2000 Recall Scandals

fire scandal

Mitsubishi! > Cars > Scandals > Trucks Catch Fire

Mitsubishi Fuso Trucks and Buses Catching Fire

July 8, 2004. Shizuoka, Japan. A Mitsubishi Fuso truck caught fire in Iwata, Shizuoka Prefecture, partially burning its bed and two refrigerator. The incident happened near Iwai tollgate on the National Highway No. 1. (Kyodo News)

July 6, 2004. A Mitsubishi Fuso Truck and Bus Corp 1995 Rosa bus burst into flames after its driver pulled over on Kanetsu Expressway in Fujioka, Gumma prefecture, after noticing white smoke coming out from below his seat and brakes not responding. All 16 passengers got out quickly and are reportedly unhurt. The cause of the fire is still under investigation. Its 2002 model was subject to a 2002 recall by Mitsubishi Motors for a defective engine starting switch. The bus was completely destroyed.

June 30, 2004. Kumamoto, Japan. A Pajero SUV caught fire along a mountain road in Aso, Kumamoto Prefecture. It completely destroyed the vehicle. (Kyodo News)

