

# Reducing World Dependence on Oil in Transportation

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# Consequences of oil dependence



## Strategic

7 of 9 biggest oil exporters have a non democratic regime



## Economic

Oil price increase hurts global growth



## Enviromental

The source of 40% of GHG emissions is oil



**Most global oil dependence is due to transportation**

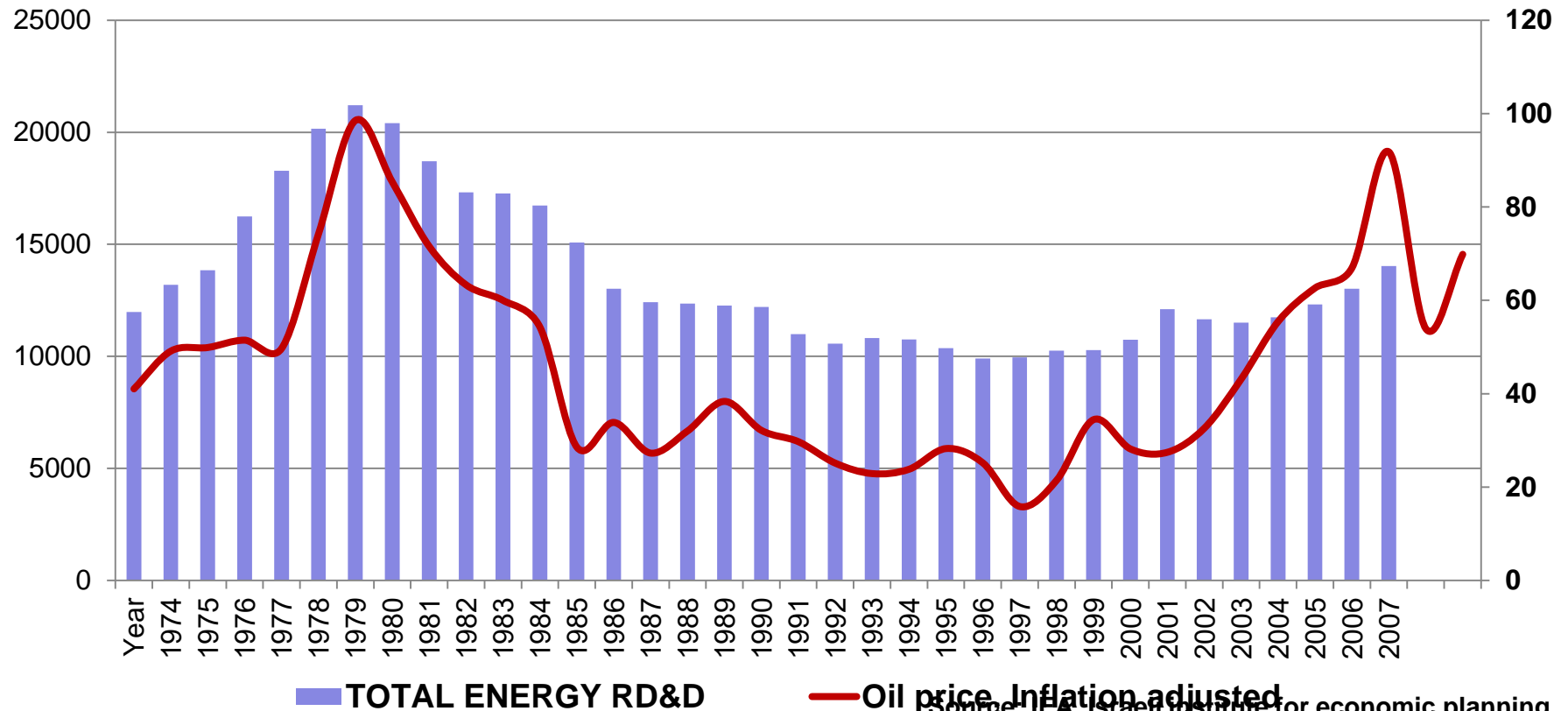
2  **600 million new cars will be sold by 2020.**

# Lack of long term vision



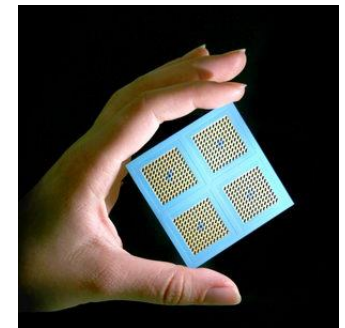
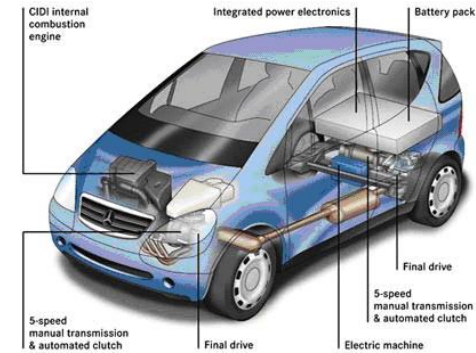
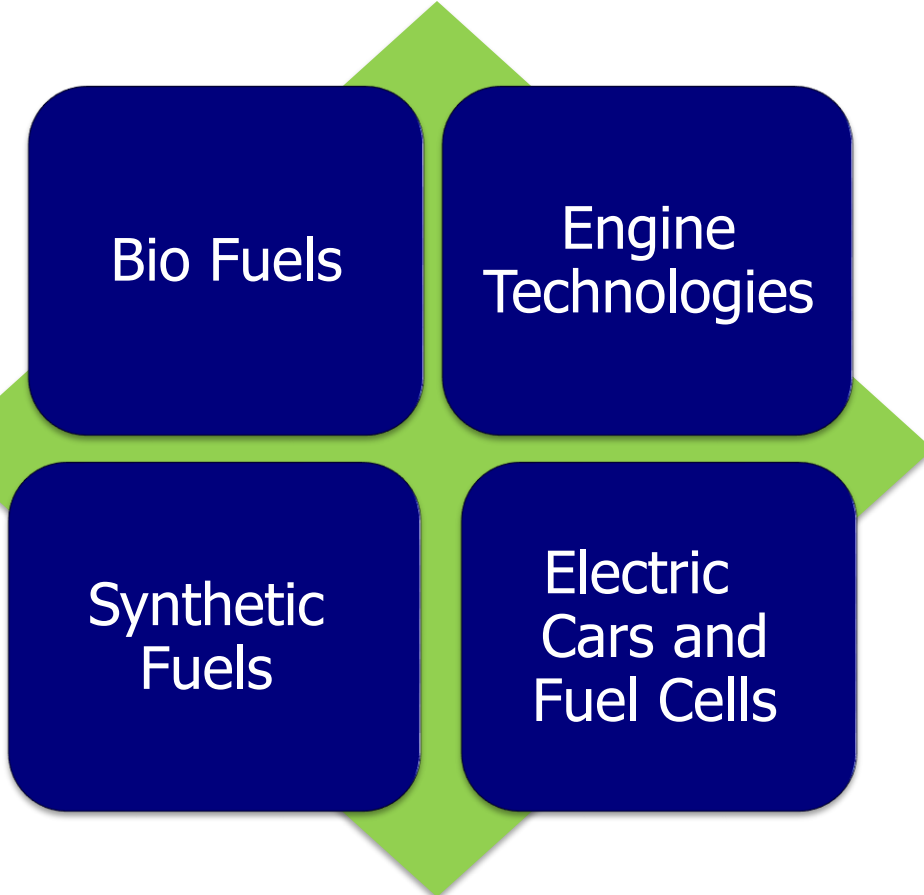
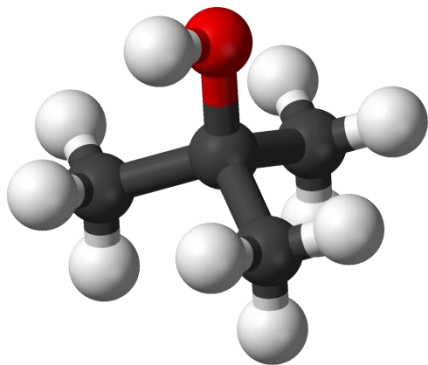
❑ Investment in oil alternatives depends on oil price

**World Energy RD&D (million US\$, 2008 prices)  
and oil price (annual average, 2008 prices)**



Source: IEA, Israel Institute for economic planning

# Oil Substitutes for Transportation



# Israel has significant capabilities



## ❑ Advanced research in relevant scientific fields

- Over 50 serious research groups

## ❑ Business activity and investments in the field

- 200 M\$ already invested in 60 companies and start-ups

## ❑ Existing Industrial clusters enable establishment of the field

- Agriculture and BioTechnology
- Chemistry and Chemical Engineering.
- Software and Electronics
- Defence industry

# The National program



## Goal:

Israel as a center of industry and research, a leader in development of technologies that reduce world dependence on oil for transportation, and their worldwide implementation

## Main principles:

- **Certainty:** assuring continuity and stability of support for 10 years.
- **Cooperation:** on the international, business and academic levels for **maximum leverage** of government resources and for **the focus of worldwide attention**
- **Allow private initiative** to choose technological path

# The National program



## Partners:

Ministries of Industry and Commerce, Treasury, National Infrastructure, Transport, Environment, Interior, Vatat and ISF.

## 5 year Mission:

- To double the number of Israeli companies from 50 to 100, 20 of them with significant global sales
- To double the number of researchers In Israel
- World class “Excellence centers”
- Breakthrough pilots and beta-sites
- Full Scale solutions

# The National program



**Designated Program Manager,  
International Cooperation**

**Beta Site Project Funding**

**One Stop Shop for Companies**

**Venture Capital Co-Investment and incentives**

**Excellence Centers,  
Grants, Certainty**

Basic Research

Industrial R&D

Pilot

Scale Up



**Thank you**