



Università degli Studi di Salerno
Dipartimento di Ingegneria Meccanica
Dipartimento di Scienze Economiche e Statistiche
Dipartimento di Sociologia e Scienza della Politica

Innovazione e Sviluppo dell'Industria dell'auto nel Mezzogiorno
Ciclo di Seminari 2009
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SEMINAR

Research Activities on Automotive Control: Experiences from Japan and Italy

Friday, November 13, 2009 – 9.30-13.00

University of Salerno, Faculty of Engineering, Room 126

- 9:30 *Prof. Vincenzo D'Agostino, Director of DIMEC, University of Salerno, Italy*
Prof. Vittorio Dini, Director of DSSP, University of Salerno, Italy
Welcome
- 9:40 **Prof. Gianfranco Rizzo, DIMEC, University of Salerno, Italy**
Introduction
- 9:50 *Dr. Akira Ohata, Toyota Motor Corporation, Japan*
Desired Modeling Environment for Automotive Engine Controls
- 10:40 *Prof. Tielong Shen, Dept. of Engineering and Applied Sciences, Sophia University, Tokyo, Japan*
Recent Research Topics of Automotive System Control in Sophia University
- 11:30 *Dr. Stefano Scala, ELASIS, Pomigliano d'Arco, Naples, Italy*
Research in Automotive and Transportation Control at ELASIS
- 12:20 Discussion



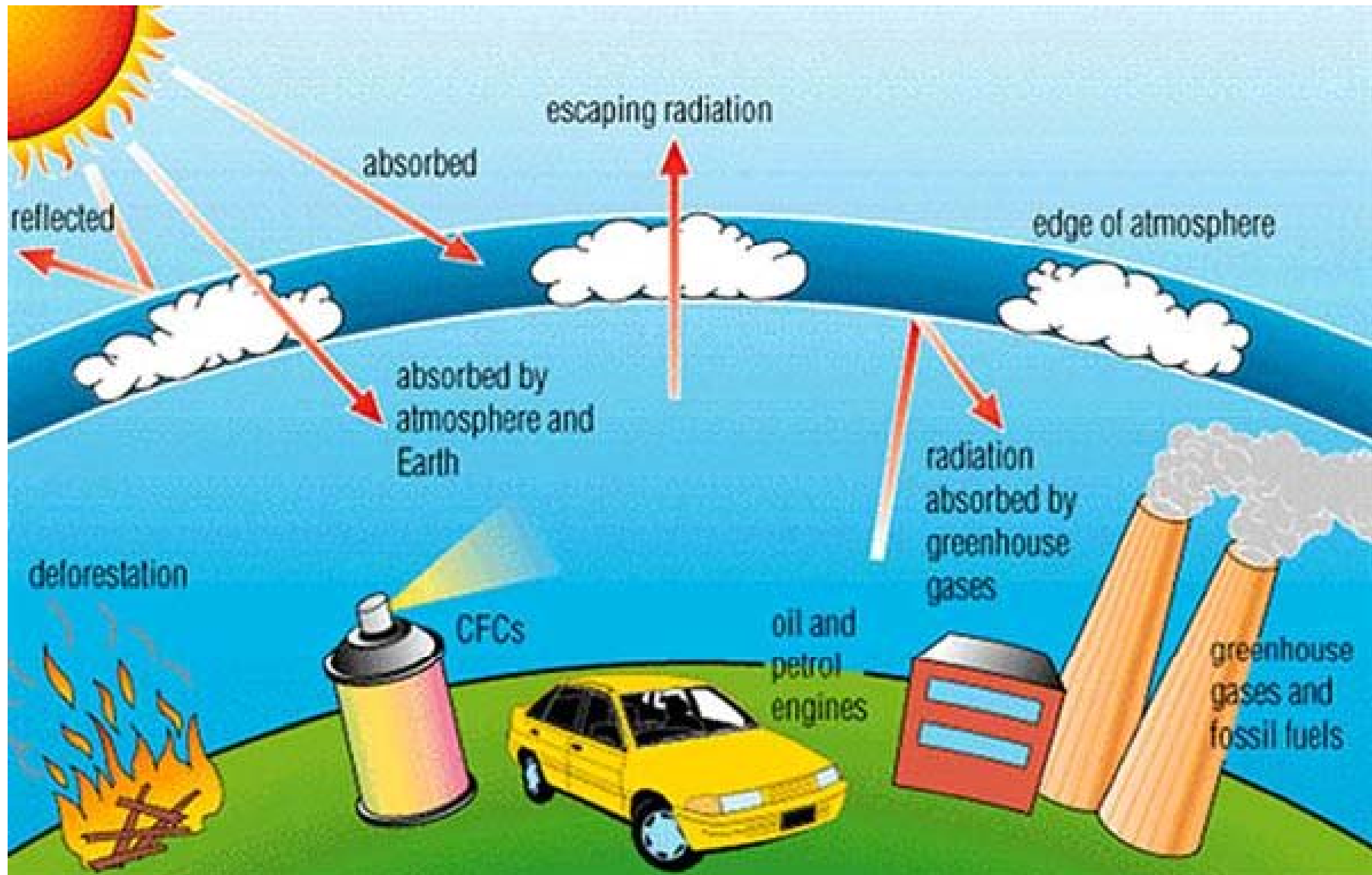
Does the Flap of a Butterfly's Wings in **Brazil**
Set Off a Tornado in **Texas**?



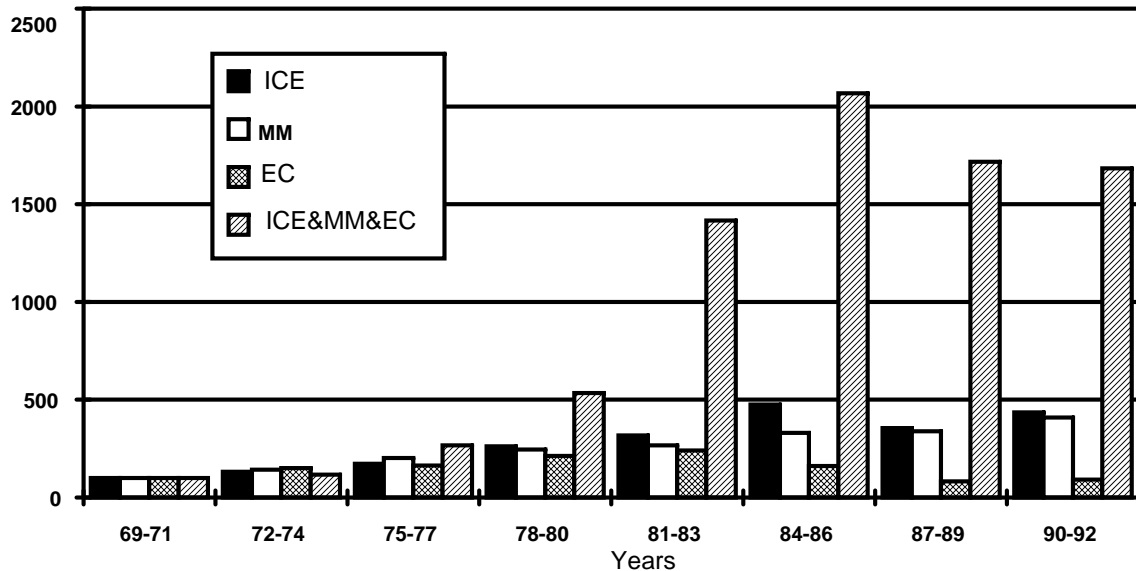
Ryoan-ji, Kyoto

Greenhouse effect



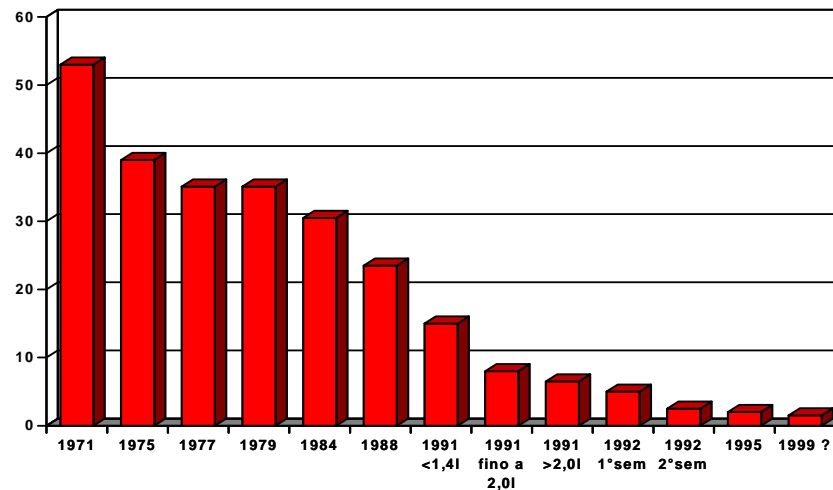


Emission control and research effort



Number of references in the data-base ESA-IRS (NASA, COMPENDEX, NTIS, INSPEC, GLOBAL MOBILITY), for **ICE**, **Mathematical Models** (MM), **Electronic Control** (EC). Percent values, with respect to 1969-71.

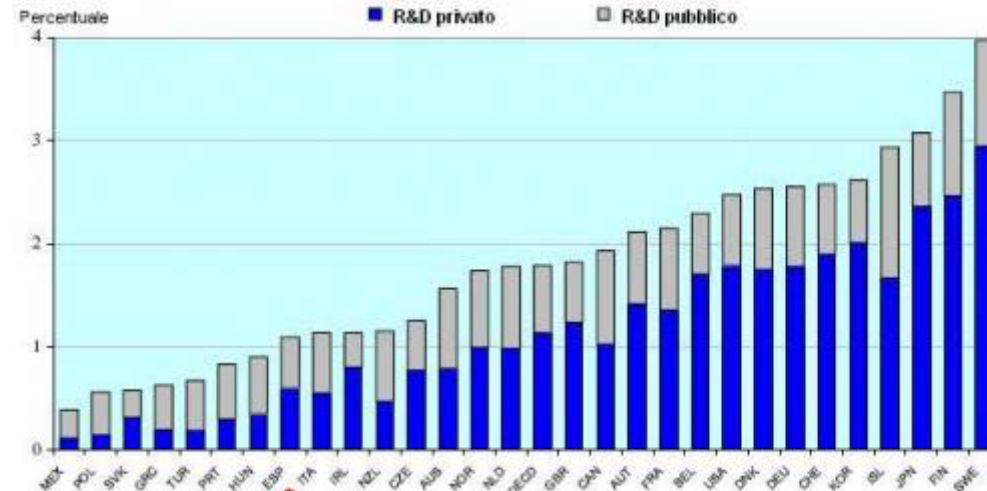
From 70's, the **emission limits** have decreased by about **two orders of magnitude**. In the same period, the number of papers on application of **control** and **mathematical models** to **engines** has increased of a factor 20 and more.



The economic crisis



R&D Investments on GNP



Italy

Japan