





GHG, ENERGY & TRANSPORTATION:

THE FRENCH GENERAL FRAMEWORK

EU-Twinning Project TR03-EY-01 « Improvement of Energy Efficiency in Turkey"

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Environment and Energy Management Agency



ADEM

STATUS: Industrial and commercial public institution placed under the joint supervision of the ministers of the Environment, Energy and Research.

AREAS OF INTERVENTION: Air, Noise, Waste, Energy, Environmental Management, Polluted Sites and soils, Transport.

MISSION: Within the frame of public policies defined by the government, the Agency's mission is to stimulate, animate, coordinate, facilitate and perform operations aiming at the environment protection and energy management.

STAFF: 850 employees in 3 central offices (Angers, Paris and Valbonne), 26 regional branches, 3 representations in the French overseas territories and 1 office in Brussels.

2004 budget : 331 M€ Action budget : 262 M€ Operating budget : 69 M€



Environment and Energy Management Agency



ADEME

Background: 30 years of sustainable development

Key dates

1974	Establishment of the <i>Agence pour les Economies d'Energies</i> (AEE) (Energy Savings Agency)
1975	Establishment of the <i>Agence Nationale pour la Récupération et l'Elimination des Déchets</i> (ANRED) (National Waste Recovery and Disposal Agency)
1978	Establishment of the <i>COMmissariat à l'Energie Solaire</i> (COMES) (Solar Energy Commission)
1980	Establishment of the Agence pour la Qualité de l'Air (AQA) (Air Quality Agency)
1982	Establishment of the <i>Agence Française de la Maîtrise de l'Énergie</i> (AFME) (French Energy Management Agency) by merging AEE and COMES
1991	Establishment of the <i>Agence De l'Environnement et de la Maîtrise de l'Energie</i> (ADEME) (Environment and Energy Management Agency) by merging ANRED, AQA and AFME.



ADEME

Environment and Energy Management Agency



Helping society to protect the environment and manage energy

ADEME has **many competencies** to accomplish its mission:

- scientific and technical competencies to encourage more environmentally-friendly solutions,
- expert assessment and consultancy competencies to guide decision-makers in their projects and facilitate their choices,

• "resource centre" competency capitalizing the results of local experience to encourage the dissemination of best practices to all members of society.

These competencies enable **ADEME** to **work in highly diverse ways** which constitute the specific aspects of its role:

- guidance, organisation and funding of research programmes,
- consultancy and expert assessments,
- development of methodological tools and dissemination of best practices,
- funding of decision-making aids, exemplary operations and projects,
- training, information, communication and awareness-raising actions.

All sectors of society are concerned: businesses, local authorities, government departments, non-governmental organizations (NGOs), the general public, international partners.

To implement its policies and its actions, **ADEME** develops many **partnerships** with federations of professionals, major companies, local authorities or NGOs and with equivalent structures in other countries.





Kyoto (1997) First Real Commitment. Launched FEBRUARY 2005 Average Emissions Reduction of 5,2% of GHG within 2008-2012 (Base 1990)

(1)				
<u> </u>	Bulgarie	-8%		
0				
- E -	Canada	-6%		
× I	Croatie	-5%		
Ξ	Estonie	-8%		
	Etats Unis	-7%	Allemagne	-21%
. č		-6%	Autriche	-13%
~	Hongrie		Belgique	-7,5%
		10%	Danemark	-2,1%
-	Japon	-6%		
-	Lettonie	-8%	Espagne	+15%
~	Union Européenne	-8%	France	0%
Ś	Liechtentein	-8%	Finlande	0%
+			Grèce	+25%
	Lituanie	-8%	Irlande	+13%
<u>ں</u>	Monaco	-8%		
_	Nouvelle-Zélande	0%	Italie	-6,5%
	Pologne	-6%	Luxembourg	-28%
	Pánublique tehèque	-8%	Pays-Bas	-6%
ಎಂ	République tchèque		Portugal	+27%
9	Roumanie	-8%	Royaume Uni	
60	Russie	0%		
engagements du Protocole	Slovaquie	-8%	Suède	+4%
e l	Slovénie	-8%		
	Suisse	-8%		
Les				
e	Ukraine	0%		

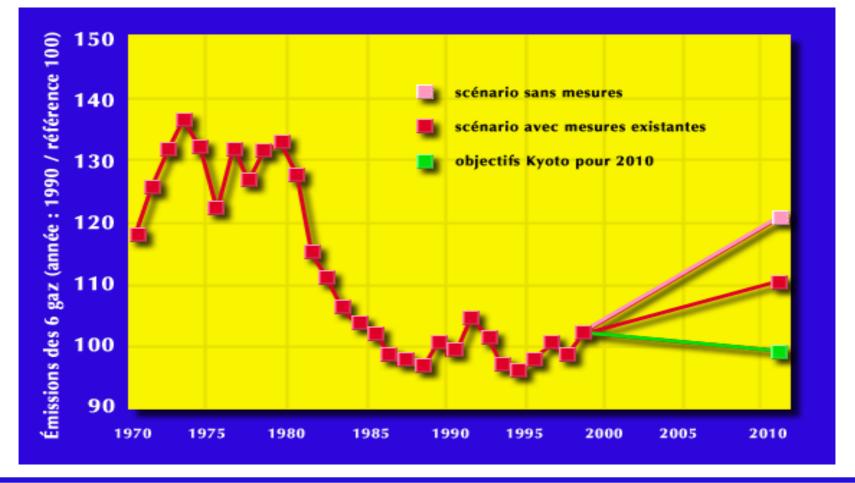


KYOTO: THE FRENCH COMMITMENT

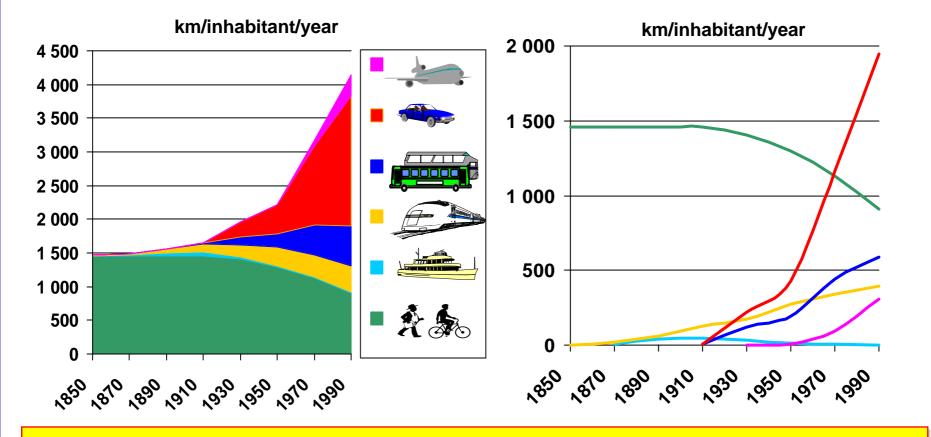
in 2010: emissions equal to 1990 in 2050, divide them by 4 / 2000



Kyoto : 6 major GHG : CO2, CH4, N20 + 3 HFC Montreal: 4 indirect GHG: SO2, NOX, COVNM, CFC

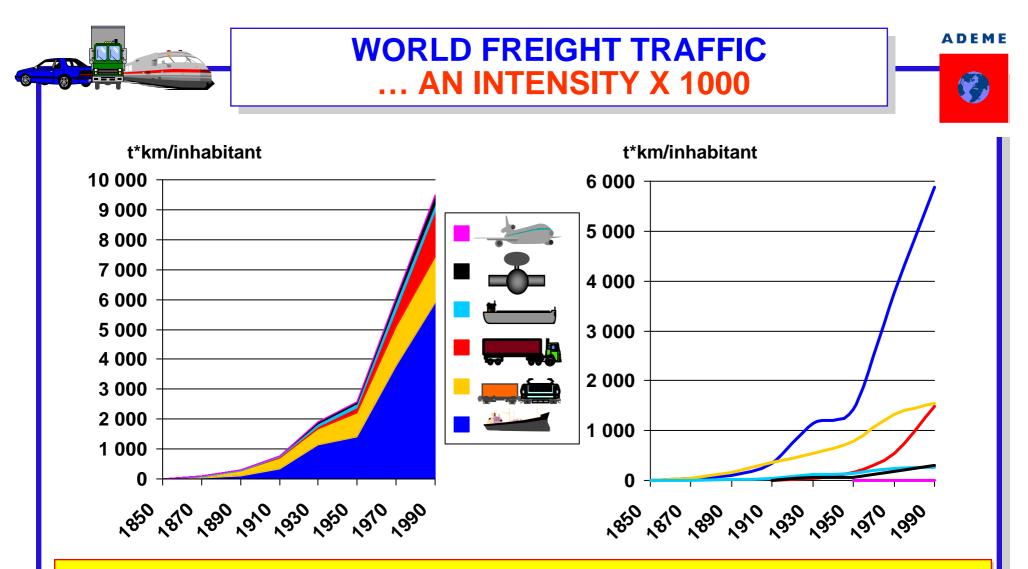






From 1 500 km/year à 4 500 km/year par inhabitant within 1,5 century !

Source: Centre for Sustainable Transportation (Canada).



From 10 t0km/year to 10 000 t0km/year per inhabitant within 1,5 century!

Source: Centre for Sustainable Transportation (Canada).



SOURCES OF GHG IN FRANCE Evolution 1990-2001



Area	Part in GHG in 2001	Trend since 1990
Transportation	26%	+21%
Buildings	18.59%	+17%
Industry	21.28%	-14%
Energy	11.97%	-17%
Agriculture	19.35%	-6%
Waste	2.53%	-4%

Source : MIES

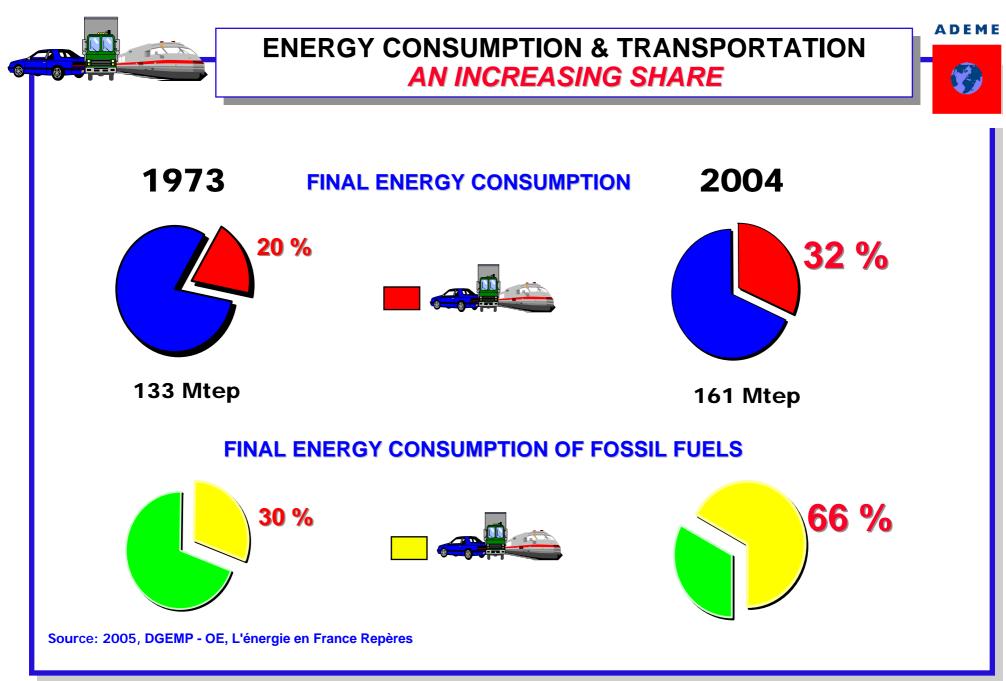


GHG Emissions (Mt equivalent CO2) TRANSPORTATION '90-2003: an increasing responsability



	1990	2003	Evolution
TRANSPORTS France 2003 = 27% Europe = 21%	121,5	149,1	+23%
Air Domestic only	4,6	5,2	+
Road	113,8	137	+++
Rail	1,1	0,7	-
Sea Domestic only	1,9	2,6	+
Other	0,2	0,7	+
Air Conditioning Gases	0,0	2,9	+

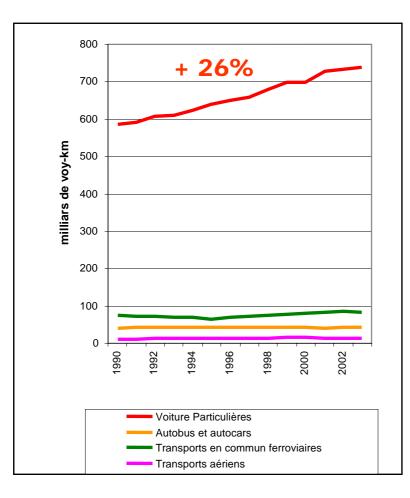
Source : MIES





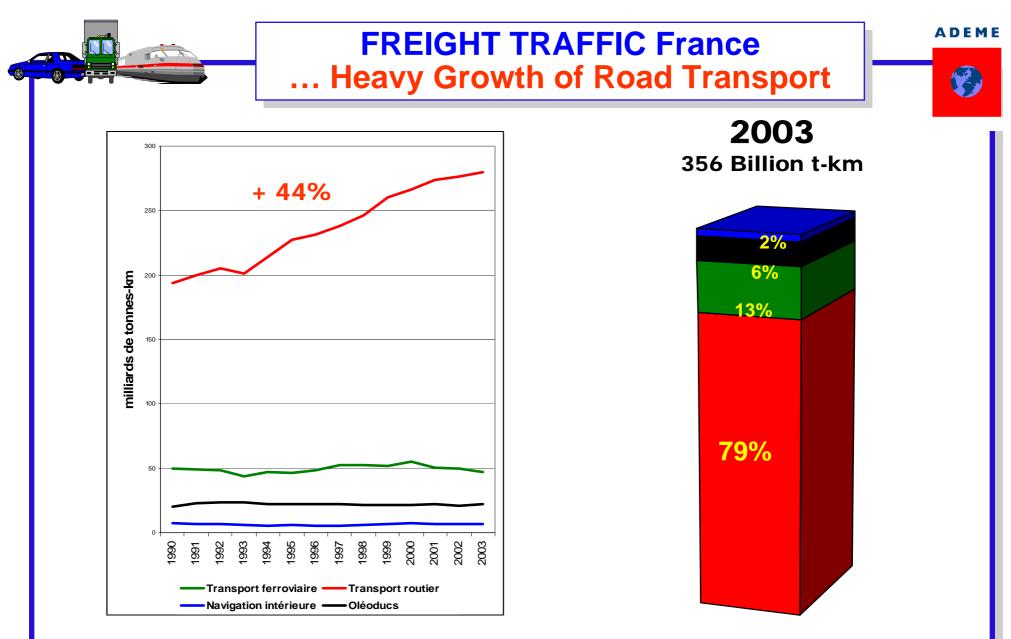
TRIP REPARTITION PAR MODES France ... Heavy Growth of Private Cars



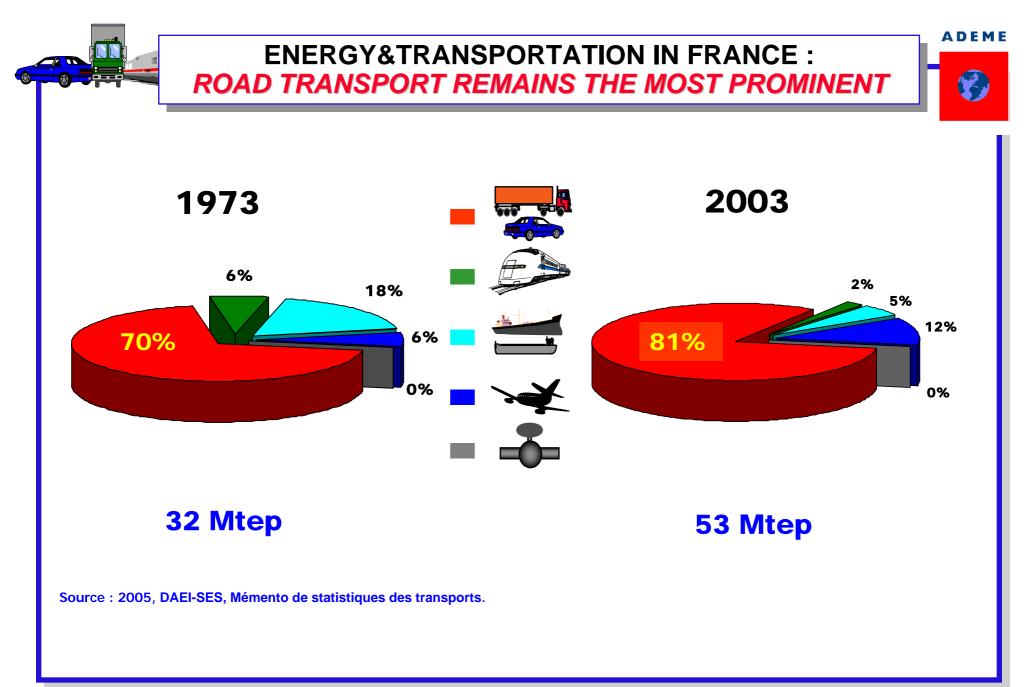


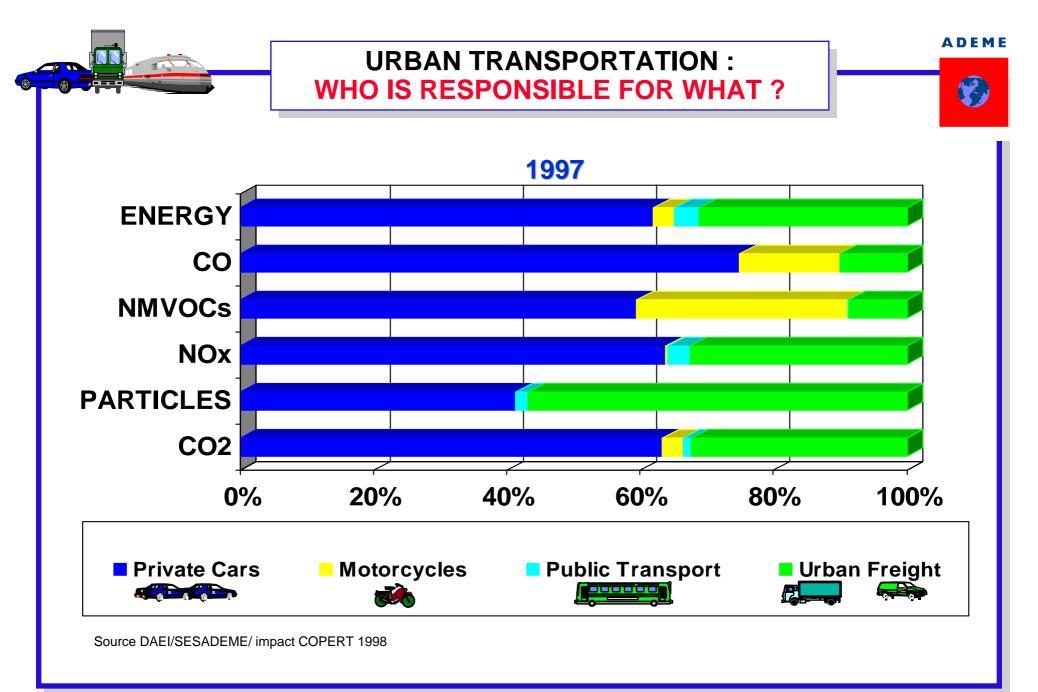
2003 877 Billions of pass-km 1% 9% 84%

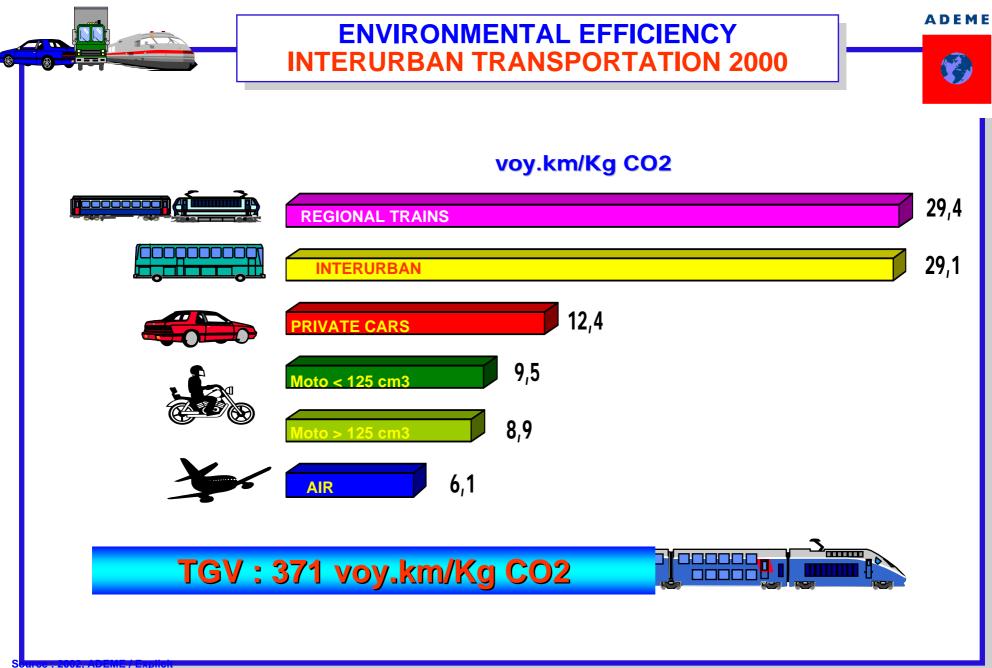
Source: 2004, DAEI-SES-Insee, Les transports en 2003, 41ème rapport de la CCTN

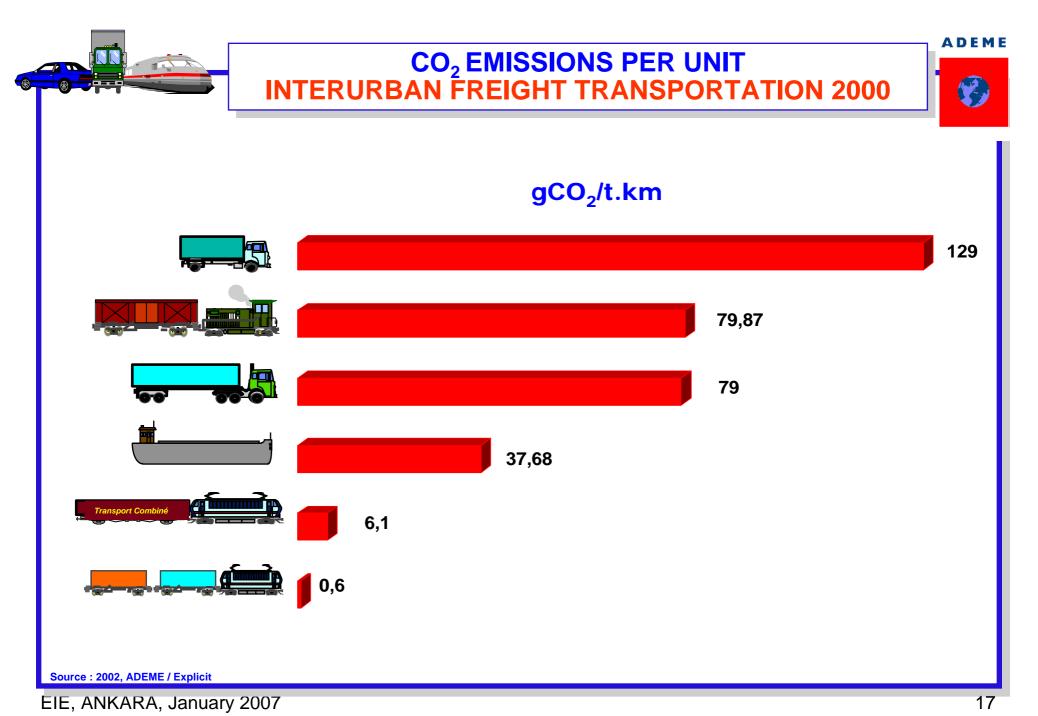


Source: 2004, DAEI-SES-Insee, Les transports en 2003, 41ème rapport de la CCTN











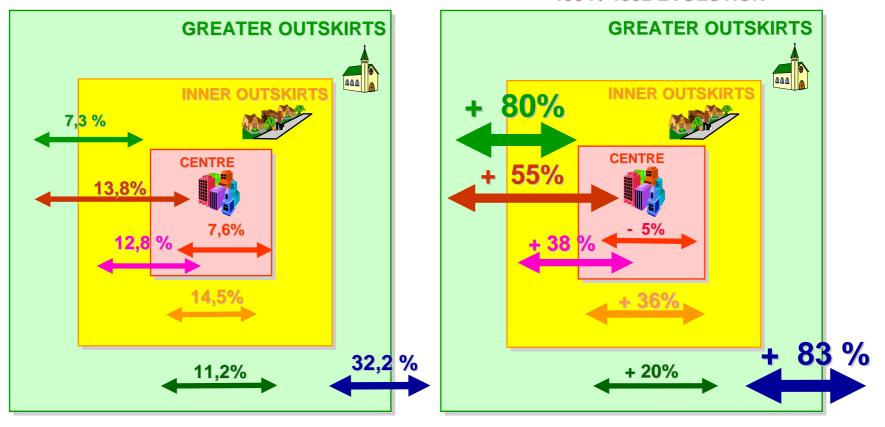
AVERAGE TRIP DISTANCE BREAKDOWN WEEK DAY

1994 / 1982 EVOLUTION

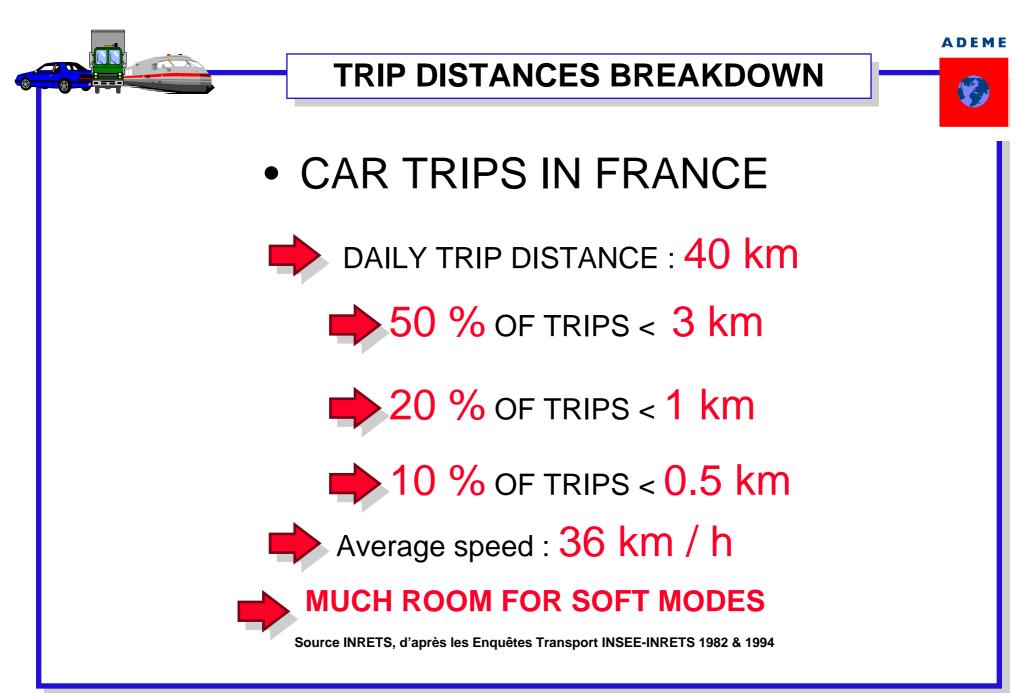


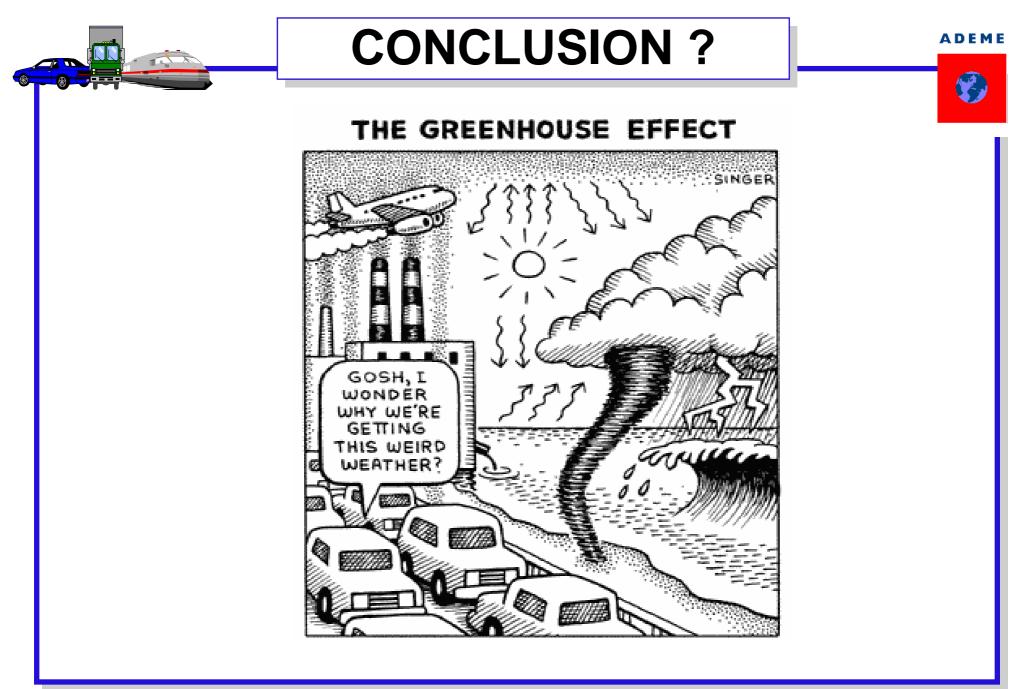
ADEME

1994



Source INRETS, d'après les Enquêtes Transport INSEE-INRETS 1982 & 1994







CLIMAT CHANGE IS A REAL CONCERN AND TRANPORTATION HAS A MAJOR RESPONSABILITY



Temperatures will increase from 1,4 up to 5,8°C (from now on to 2100)

Most expected consequences are:

- Sea Levels will increase of 80 cm (from now to 2080), erosion coastal erosion and threats on deltas..
- Dry zones relocation, less snow, agricultural and vegetal mutations, extinction of species...
- Floods (+20% of rain in winter), drought, heat waves (-15% rain in summer)...
- Impacts on Health...
- Impacts on Population movements (Environmental Refugees)...



CONCLUSION ?



