



Transport Day
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POLICY MAKING FOR SUSTAINABLE, LOW-CARBON TRANSPORT IN THE DEVELOPING WORLD

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TRANSPORT POLICY AND MITIGATION: ONE SIZE DOES NOT FIT ALL

- Visions of what transport policy can and should do differ greatly:

Differences reflect differences in perceived action variables:
Infrastructure and built environment

- Technology focused vision:

Change engines and fuels

- User behavior focused vision:
change modal composition of transport

Room for change greater for countries which only develop trade relations, urbanization patterns and urban form



GLOBAL SCENARIOS ASSIGN DRASTICALLY DIFFERENT ROLES TO TRANSPORT, 50 BY 2050

Cutting energy-related emissions in half by 2050 requires deep decarbonization of the power sector

| Estimated % of carbon that must be removed by sector, 2005–2050 | | |
|---|-----|---------|
| Sector | IEA | MiniCAM |
| Power | –71 | –87 |
| Building | –41 | –50 |
| Transport | –30 | +47 |
| Industry | –21 | –71 |
| Total | –50 | –50 |

Sources: WDR team based on data from IEA 2008b; Calvin and others, forthcoming.

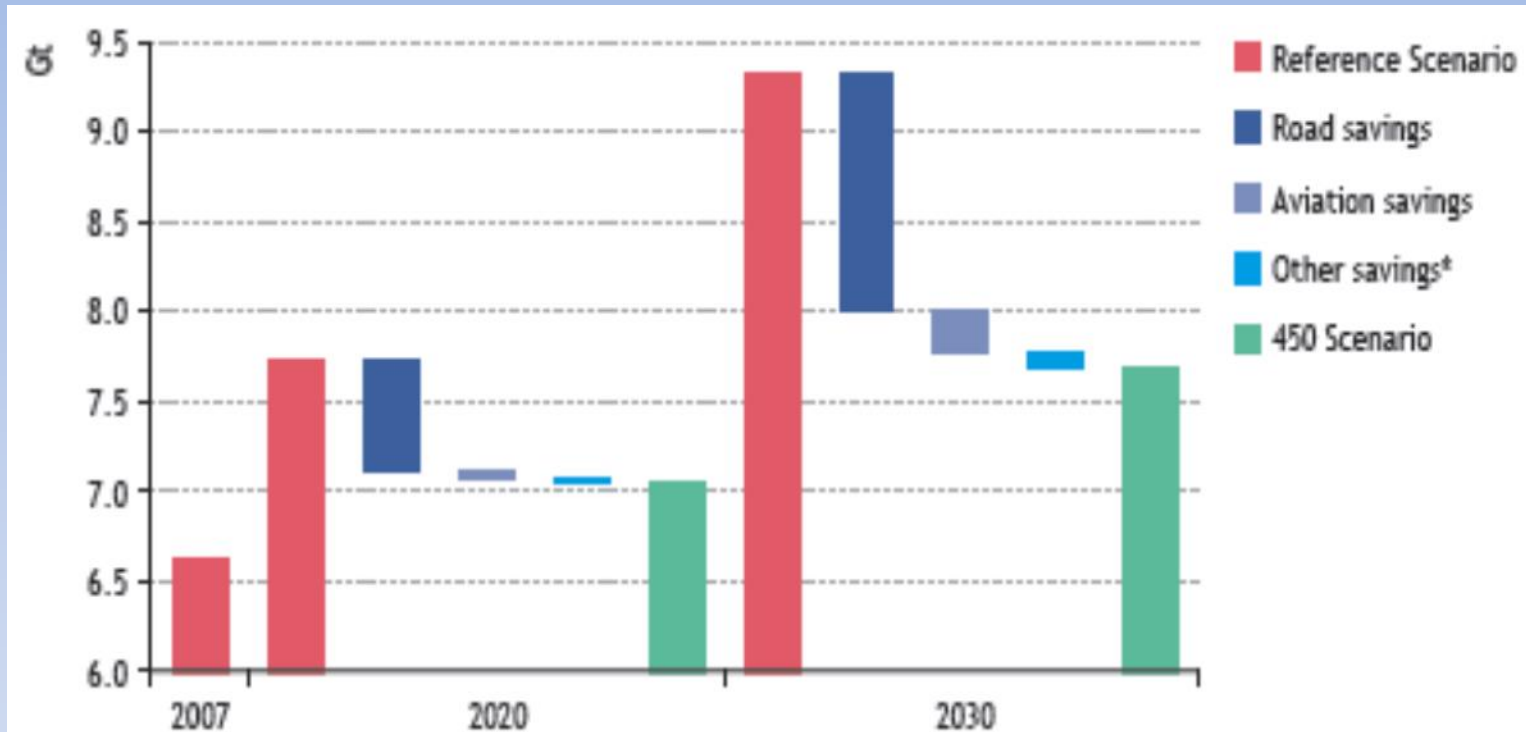


GLOBAL TRANSPORT SCENARIOS DIFFER GREATLY

- Differences reflect differences in policy focus, based on state of infrastructure development
 - With mature infrastructure technology policy emphasis, industrial policy motivation
 - For developing countries
 - growing mobility needs
 - smaller avoidance and savings potential from advanced technologies
 - greater avoidance and savings potential from different modal structure
- ⇒ Major role for infrastructure policies



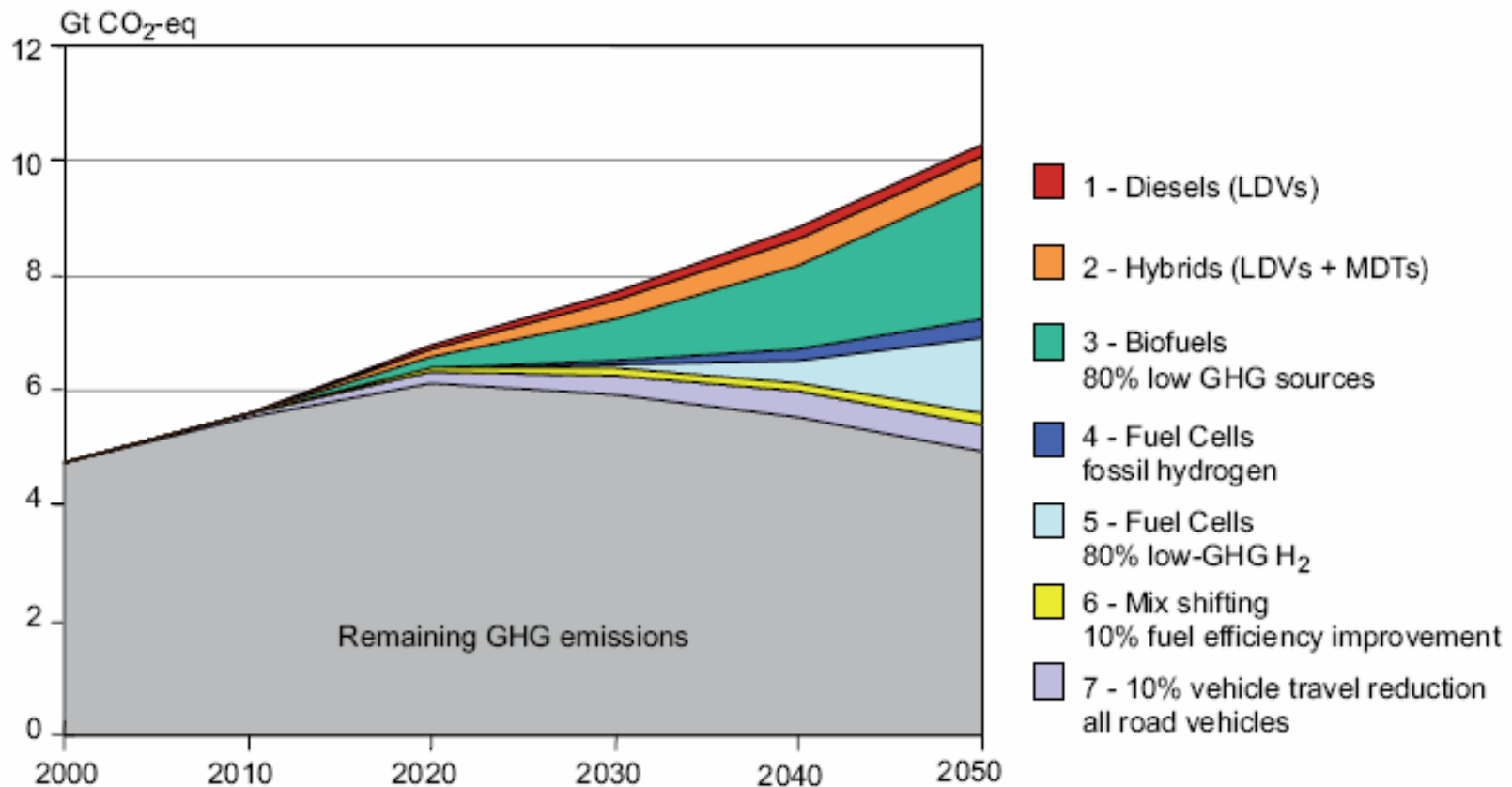
TECHNOLOGY FOCUSED VISION



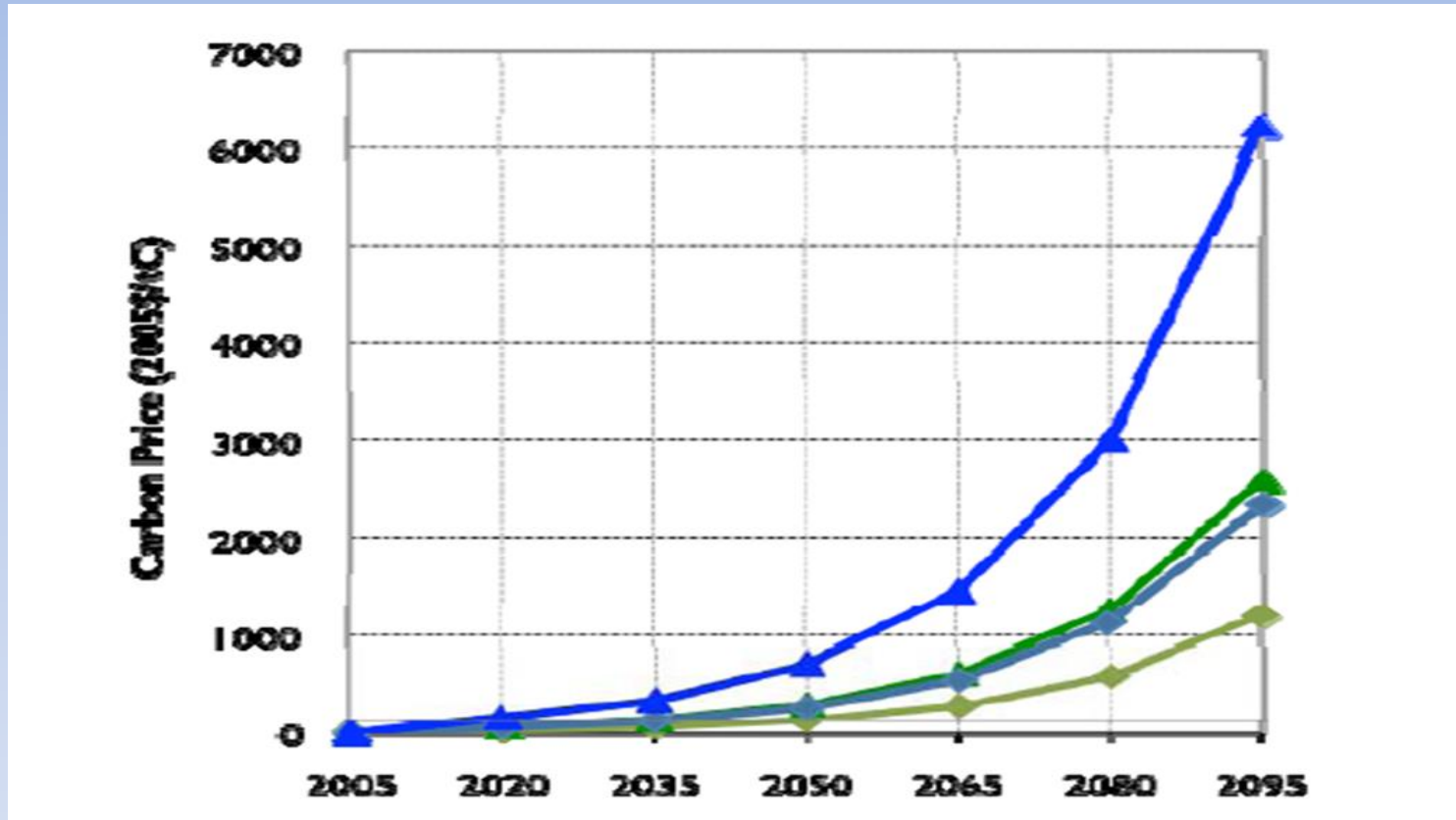
*Includes rail, pipeline, domestic navigation, international marine bunkers and other non-specified transport.



TECHNOLOGY FOCUSED VISION



USER BEHAVIOR FOCUSED VISION

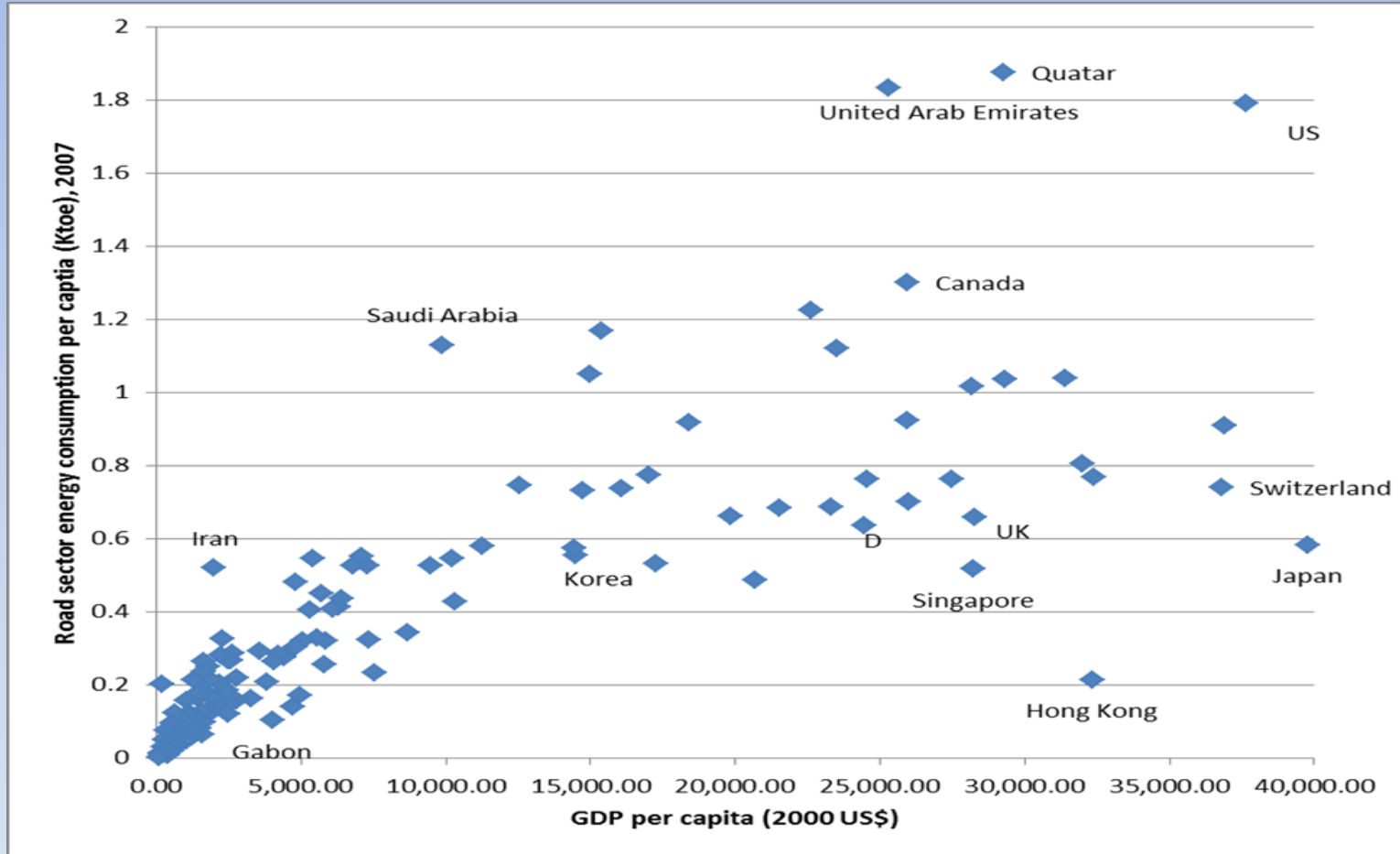


DETERMINANTS OF THE MODAL SHIFT POTENTIAL

- Freight
 - Trade distances
 - Goods to be transported
 - Demand for speed
- Passenger transport
 - Local population size and density
 - Changing urbanization and developing urban form
 - Low-emission infrastructure and incentives reflecting external costs of modes



SUCCESS REFLECTS INCENTIVES AND IMPORTANCE OF LOW-EMISSION MODES



Thank you!

