



Global Fuel Economy Initiative

Saul Billingsley
GFEI Paris Symposium
Sept 5th 2014

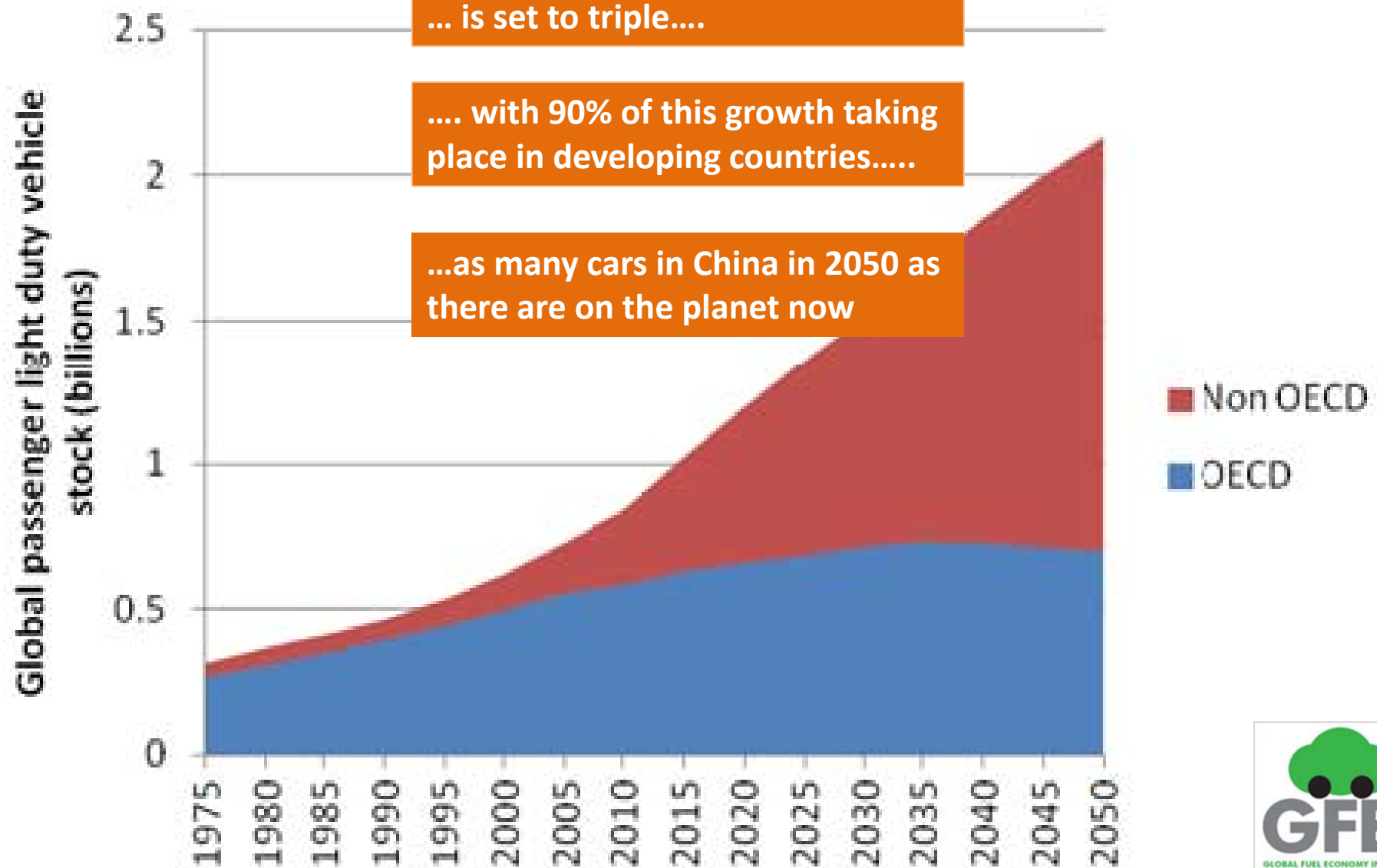


IEA estimates that the world will invest USD 400 trillion in fuels and vehicles by 2050.....

- what personal mobility systems will we use?
- what vehicles will we buy?
- running on what fuels, and what kind of roads?
- with what energy, health and climate impacts?



The Global Fleet...

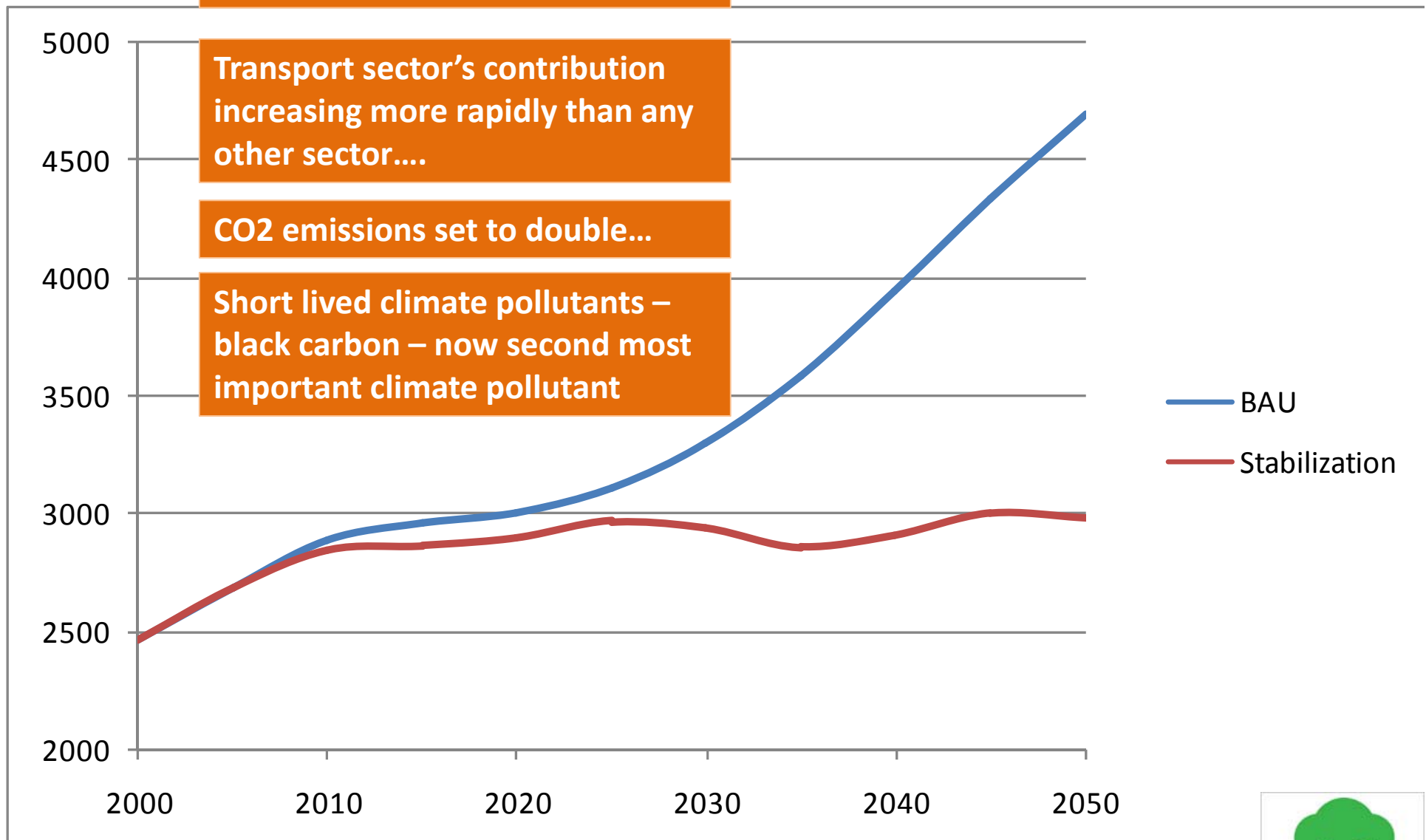


Climate Change

Transport sector's contribution increasing more rapidly than any other sector....

CO2 emissions set to double...

Short lived climate pollutants – black carbon – now second most important climate pollutant



CO2 emissions from the global light duty vehicle fleet – GFEI 2009

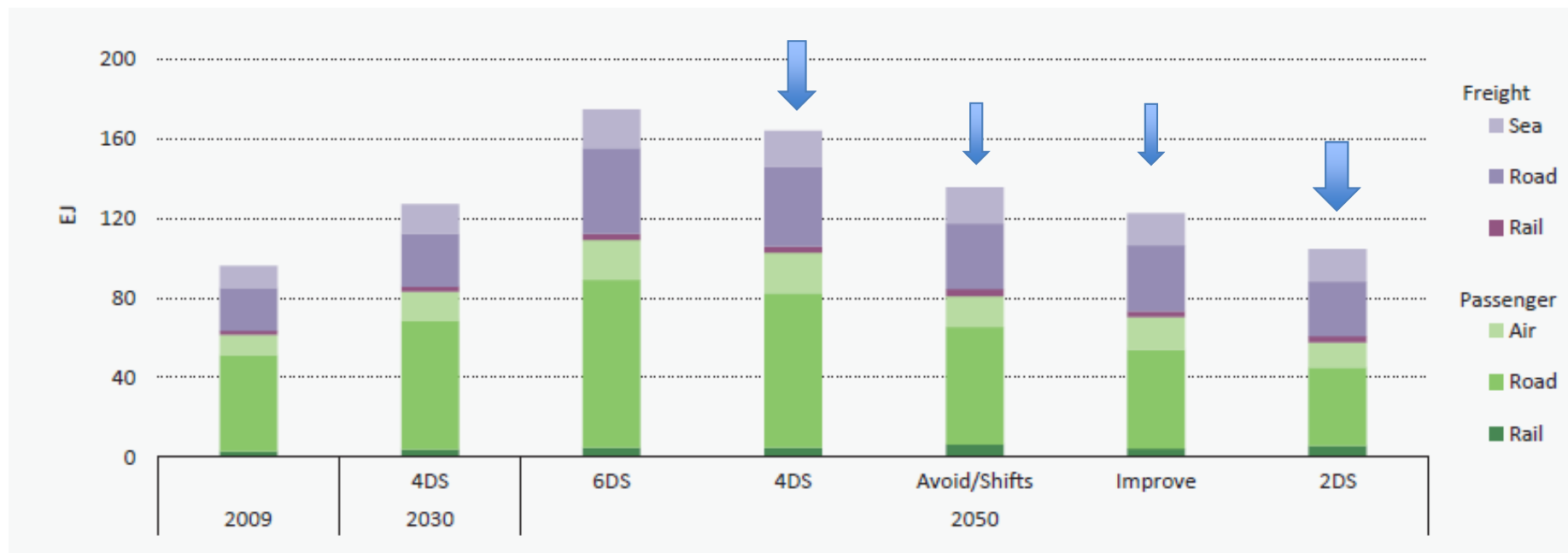
Air Pollution

World Health Organization:
small PM is affecting more
people than any other
pollutant...

...with ~3.2 million premature
deaths annually....

*...this is growing problem,
with an 11% increase globally
in deaths from air pollution in
the past 20 years*

Energy Security



Source: IEA's – likely demand for oil-based fuels - ITP 2013

By 2050, in comparison with a scenario considering current policies (4DS) improved energy efficiency of transport vehicles can reduce transport energy demand by 25% (Improve)
20% energy savings can be made through shifting transport to more efficient modes (Avoid/Shifts)
Combined, these two contributions lead to 35% lower energy demand (2DS)



Economics

Development

Health

Equity

Climate

Energy and Fuel

Urban/cities



Global Fuel Economy Initiative

Six core partners: FIA Foundation, UNEP, IEA, ITF, ICCT and UC Davis, financial support from GEF and EU

THE GFEI FUEL ECONOMY TARGETS

From 2005 baseline:



reduction in L/100km by 2020 in
all new cars in OECD countries



by 2030 in all new cars globally



by 2050 in all cars globally

GFEI recognized as leading initiative in energy and climate reports and discussions



RESEARCH

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GFEI Updates

- US Foundation urges G20 to act on Fuel economy
- Global Environment Fund (GEF) Funding supports GFEI's next steps
- GFEI Co-Organizes Russia's First Specialized Auto Fuel Economy Event



Working Paper 9



Read 'How vehicle fuel economy improvements can save \$2 trillion...'
>

View all Working Papers >



Fuel Economy and the UN's Post 2015 SDGs

Click here to download the leaflet >



GFEI State of the World 2014

Learn about the

Screenshot Added

Research



UCDAVIS
INSTITUTE OF
TRANSPORTATION
STUDIES

How vehicle fuel economy improvements can save \$2 trillion and help fund a long-term transition to plug-in vehicles



GFEI In-Use Fuel Economy Seminar Summary and Conclusions

The GFEI launched its 'London Seminar Series' on July 16, 2014, with a high level gathering of fuel economy experts from research organizations, NGOs, industry and government. The one-day seminar covered recent research on the gap between tested and "in-use" fuel economy, implications of this gap, and steps that could be taken to address it. The discussion was particularly focused on the European Union situation, its test procedures and future plans, although the discussion was also broadened out to cover other vehicle markets and testing systems.

Working Paper 9



Russia



China



In-Country Policy Work:

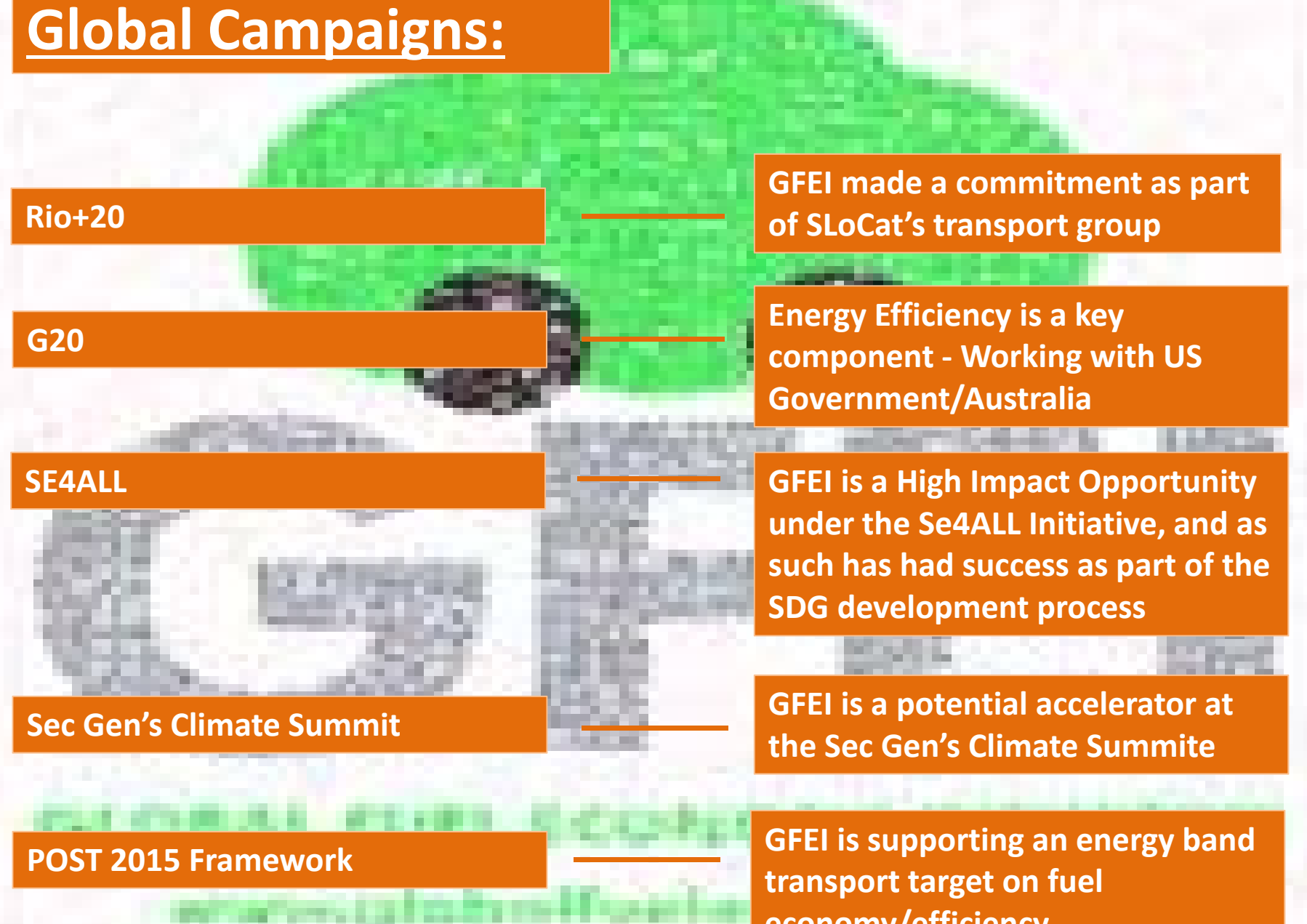
Global Environment Facility (GEF) - \$2.3 million for work with:

- Cote d'Ivoire***
- Mauritius -***
- Peru***
- Jamaica***
- Montenegro***
- Macedonia***



Regional/national meetings

Global Campaigns:



Rio+20

GFEI made a commitment as part of SLoCat's transport group

G20

Energy Efficiency is a key component - Working with US Government/Australia

SE4ALL

GFEI is a High Impact Opportunity under the Se4ALL Initiative, and as such has had success as part of the SDG development process

Sec Gen's Climate Summit

GFEI is a potential accelerator at the Sec Gen's Climate Summit

POST 2015 Framework

GFEI is supporting an energy band transport target on fuel economy/efficiency

Sustainable Development Goals (SDGs)

**Proposed Goal 7 –
Ensure sustainable
energy for all**

**7.3: Double the
global rate of
improvement in
energy efficiency by
2030 in transport...**



Fuel Economy and the UN's Post 2015 Sustainable Development Goals

The Global Fuel Economy Initiative (GFEI) has shown that fuel economy improvements from conventional internal combustion engine cars can save a staggering \$2 trillion in un-used fuel over the next decade, freeing up those valuable resources for other development priorities, such as education, health, infrastructure, or indeed the promotion of other transport technologies or modes such as electric vehicles.

Cost-effective technology improvements such as weight reduction, and stop-start hybridization, could keep fuel demand steady by 2050 – even with the predicted tripling of the global fleet – and thereby save close to half of the CO₂ emissions from cars by this date. But we need a global commitment to fuel economy if we are to see the policies put in place to achieve this.



G20

- Annual Meeting, Brisbane, November 2014
- Climate Advisers and Centre for American Progress
- The Stanley Foundation
- G20 Energy Efficiency Committee - IEA



The
Stanley
Foundation



Accelerating Global Vehicle Efficiency

By Cecilia Springer, Pete Ogden, Nigel Purvis,
and Andreas Dahl-Joergensen June 2014

Based on analysis and collaboration with the International Council on Clean Transportation and the FIA Foundation

WWW.AMERICANPROGRESS.ORG



Sustainable Energy For All Annual Forum – NYC – June 2012



Briefing Sec. Gen. Ban Ki Moon on GFEI – Abu Dhabi Ascent, May 2014



**ABU DHABI
ASCENT**
IN SUPPORT OF
CLIMATE SUMMIT 2014
4-5 MAY 2014 - ETIHAD TOWERS





GFEI Fuel Economy Accelerator Symposium

Ministry of Foreign Affairs and International Development
27 rue de la Convention, Paris, 75015 | 5th September 2014



Sustainable Energy for All, an initiative led by the UN Secretary-General and the President of the World Bank, has as one of its three objectives for 2030 a doubling of the global rate of improvement in energy efficiency. To help reach this objective, the Global Energy Efficiency Accelerator Platform was established to help drive action and commitments by leaders at national and sectoral level. Roadmaps will guide project implementation supported by a global network of experts, institutions and businesses participating in this major global initiative.

The Accelerator Platform will provide governments with a standardized menu of policy options and technical support leveraging best-in-class toolkits, databases and subject matter experts. Sustainable Energy for All will promote, through its network of public and private financial institutions and donors, funding to support policy development and project implementation.

The Global Fuel Economy Initiative is one of 5 energy efficiency projects within the Accelerator. The global fleet of light duty vehicles (cars and light vans), is due to triple by 2050, with over 80% of those new vehicles in emerging economies and less developed countries.

The impact of such massive increases in vehicle numbers and energy demand is wholly unsustainable. Unsustainable in terms of congestion, pollution and health; in terms of energy supply and therefore energy security; in terms of the costs to individuals and countries as resources become increasingly scarce; and of course in terms of CO₂ and the climate. Yet fuel economy in those vehicles could be improved right now – could in fact be doubled in new vehicles by 2030, and in all vehicles by 2050 – using the cost effective fuel economy technologies such as stop-start and smaller more efficient engines, which are already in many cars now.

Such a transformative change in the cars we are driving globally would mean that even with this bigger global fleet we could save \$2 trillion net in un-used fuel by 2030 alone. These are resources which are desperately needed elsewhere – in schools and hospitals, or to support new technologies such as electric vehicles. What is more, billions of barrels of oil could be saved too; and up to 1 gigatonne of CO₂ per year from 2030, and up to 2 gigatonnes from 2050.



Grateful for the support of the French Government.

Sharing, informing, and building support from new partners in fuel economy, from the 50+ countries, corporations and NGOs attending

GFEI to be showcased at the *UN SG Summit in September 2014*

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SUMMIT 2014**
CATALYZING ACTION



THANK YOU

<http://globalfueleconomy.org>

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*#ITF2014 #Climate2014
#SE4ALL #SDGs
#post2015 #fuelecon2030*