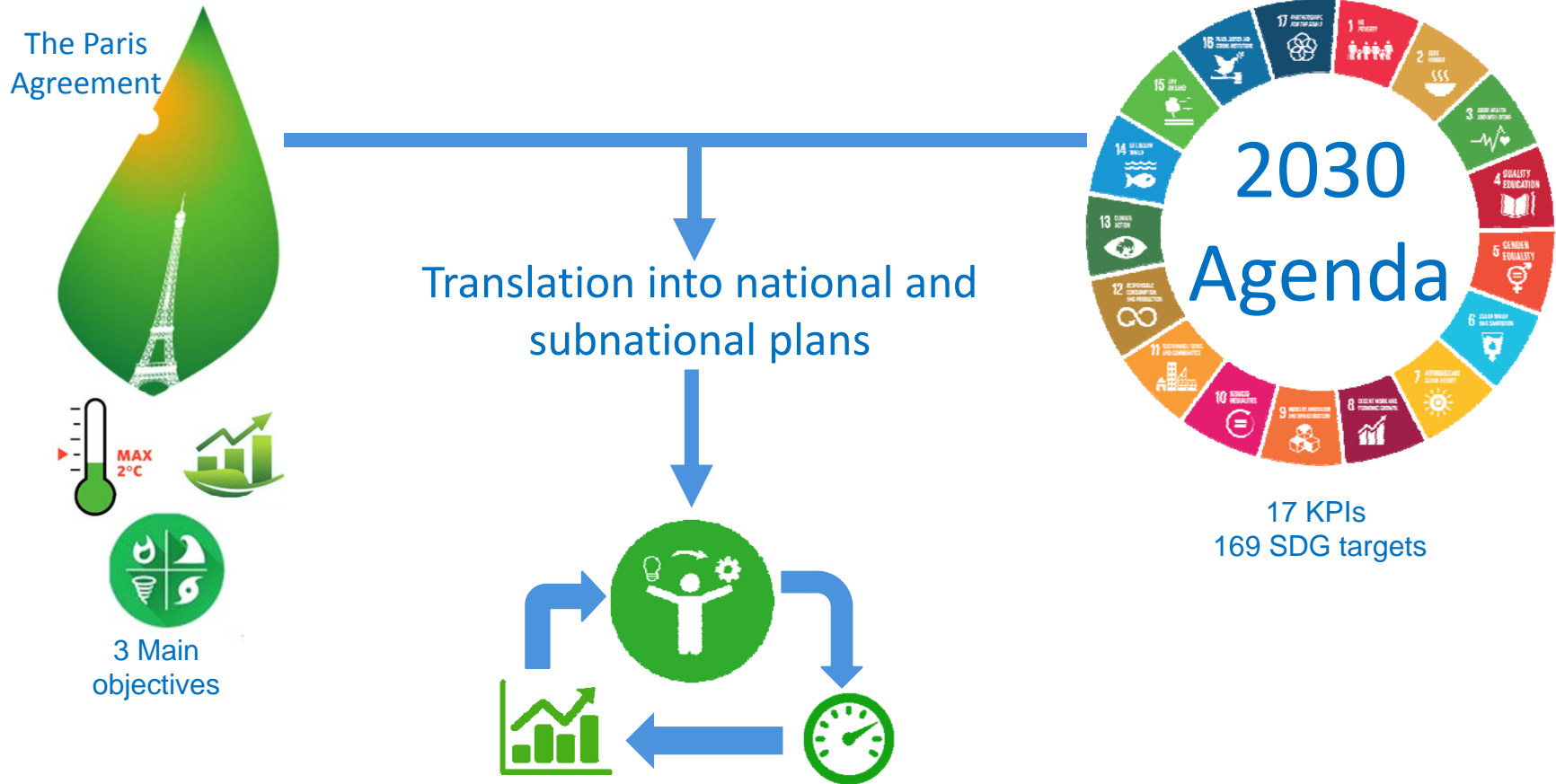


Data collaboratives on SDG monitoring Climate change indicators

4th UN Conference on Big Data
Bogota, 8 -10 Nov 2017



SDGs and the Paris Agreement



The climate actions communicated in INDCs align with 90% of the SDG targets (World Resources Institute)



SDGs and the Paris Agreement



169 INDCs ratified

142 INDCs included an adaptation component



Recommend a bottom-up approach

230 unique indicators (IAEG-SDG)

2000 indicators relevant to the green economy (NETGREEN project consortium)

Specific indicators for each country

- A good indicator :
- Policy relevance,
 - Analytical soundness,
 - Measurability (OECD)

Avoiding double counting

Standardization and harmonization

Other initiatives

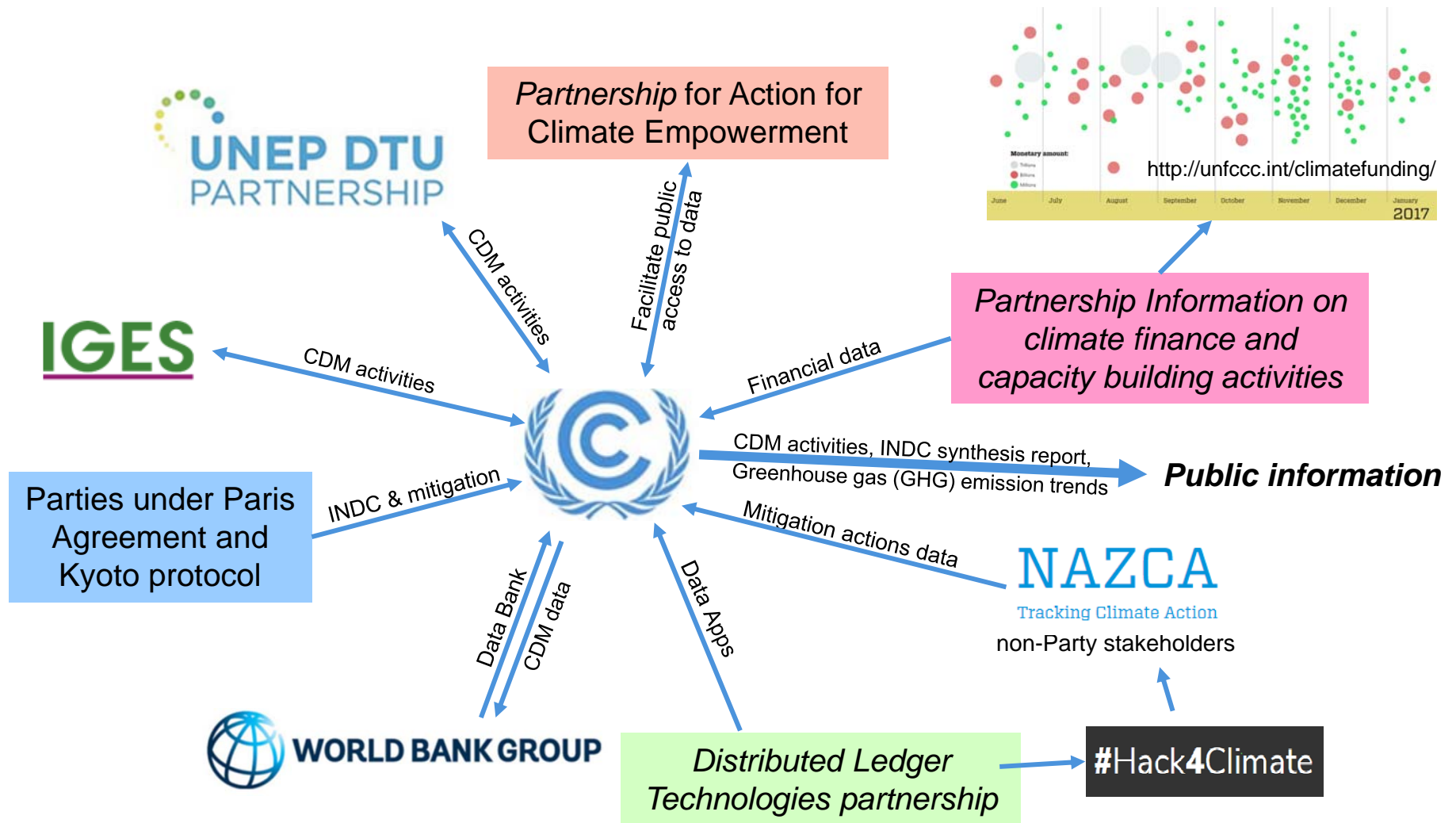
Emission trading schemes

IMO IATA

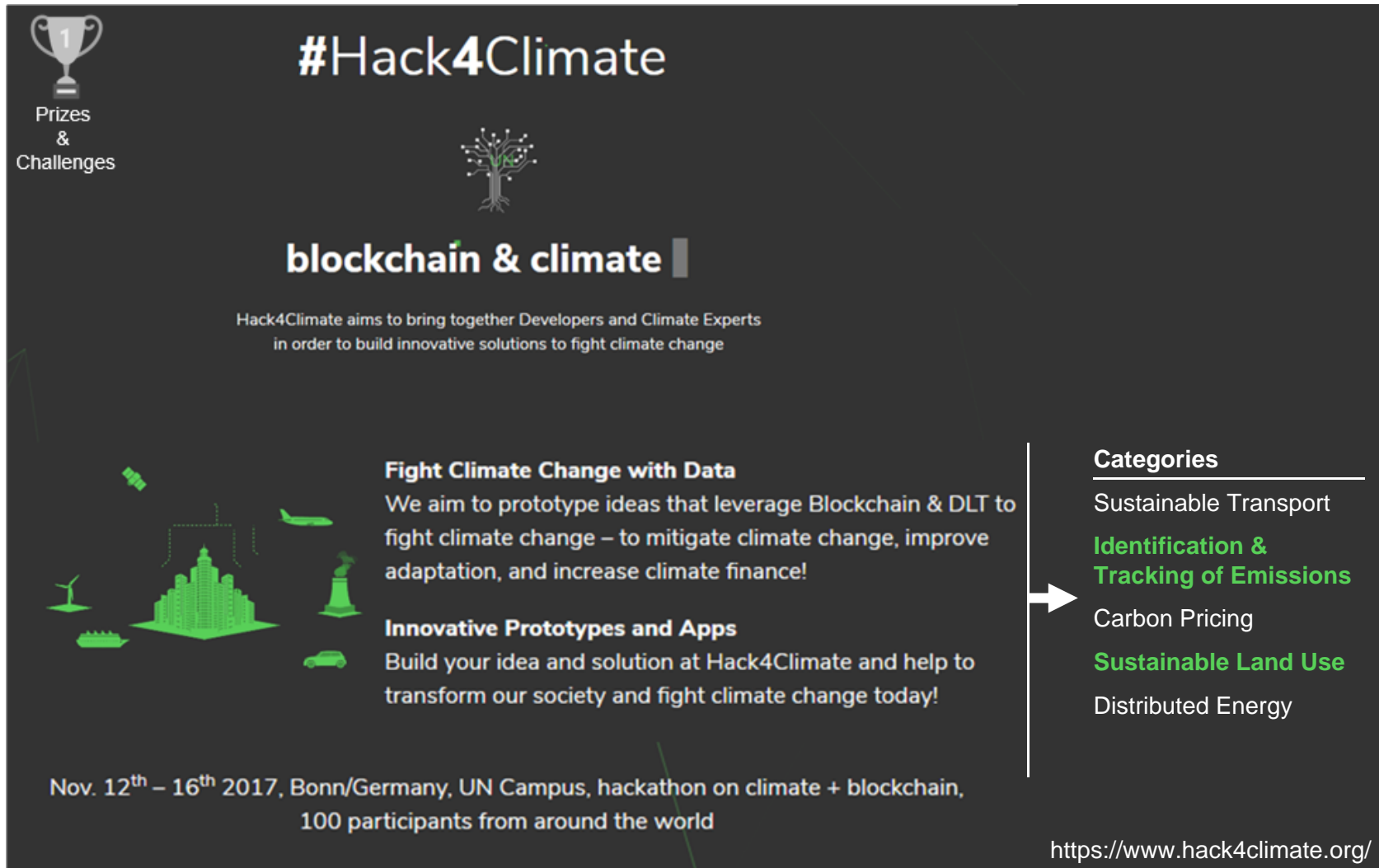
NAZCA platform ICAO



UNFCCC Data relations & partnerships



Hack4Climate - a new data collaborative initiative



The graphic features a dark background with white and green text and icons. At the top left is a trophy icon with the number '1' and the text 'Prizes & Challenges'. The main title '#Hack4Climate' is in large white font, with a tree icon below it. The subtitle 'blockchain & climate' is in white, followed by a short paragraph: 'Hack4Climate aims to bring together Developers and Climate Experts in order to build innovative solutions to fight climate change'. Below this are two main sections: 'Fight Climate Change with Data' and 'Innovative Prototypes and Apps', each with a descriptive paragraph. To the right is a 'Categories' list with five items, where 'Identification & Tracking of Emissions' and 'Sustainable Land Use' are highlighted in green. At the bottom left is the event date and location: 'Nov. 12th – 16th 2017, Bonn/Germany, UN Campus, hackathon on climate + blockchain, 100 participants from around the world'. At the bottom right is the website URL: 'https://www.hack4climate.org/'.

#Hack4Climate

Prizes & Challenges

blockchain & climate

Hack4Climate aims to bring together Developers and Climate Experts in order to build innovative solutions to fight climate change

Fight Climate Change with Data
We aim to prototype ideas that leverage Blockchain & DLT to fight climate change – to mitigate climate change, improve adaptation, and increase climate finance!

Innovative Prototypes and Apps
Build your idea and solution at Hack4Climate and help to transform our society and fight climate change today!

Categories

- Sustainable Transport
- Identification & Tracking of Emissions**
- Carbon Pricing
- Sustainable Land Use**
- Distributed Energy

Nov. 12th – 16th 2017, Bonn/Germany, UN Campus, hackathon on climate + blockchain, 100 participants from around the world

<https://www.hack4climate.org/>



Hack4Climate - a new data collaborative initiative

#Hack4Climate

Enhancing the Non-State Actor Zone for Climate Action (NAZCA)

NAZCA captures climate action pledges by companies, cities, subnational, regions, investors, and civil society organizations



NAZCA

Tracking Climate Action

2,508 CITIES	209 REGIONS	2,138 COMPANIES
479 INVESTORS	238 CSOs	COOPERATIVE INITIATIVES
12,549 TOTAL COMMITMENTS		

Objective: to move beyond and track the implementation of registered commitments



#Hack4Climate

Platform for Citizen Climate Observations

- Create incentives for citizens to report on climate observations. Particular focus on indigenous peoples and farmer.

Creating Incentives for Consumer Behavior Change

- Tracking the emission throughout the lifecycle of products.
- Monitoring consumer behavior.



New proposals in climate data collaboratives

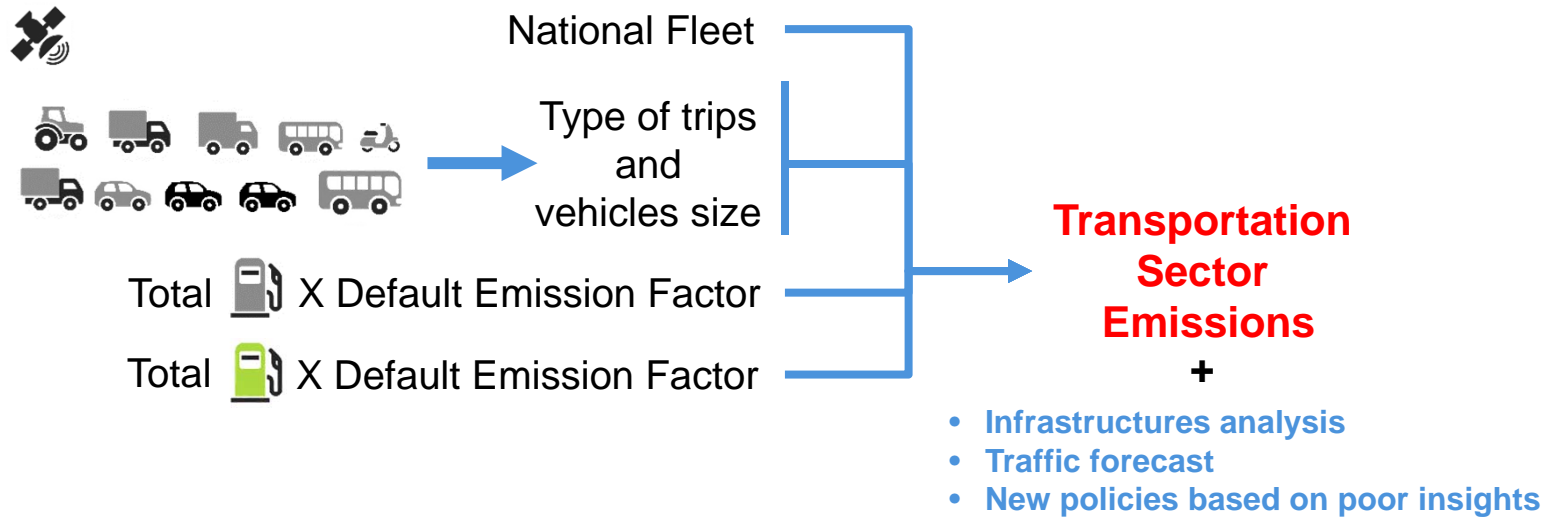
Transportation Sector Emissions

From Tier 1 to Tier 3 based on data collaborative approaches

Tier 1

$$\begin{aligned} & \text{Total } \text{[gas pump icon]} \times \text{Default Emission Factor} \\ & + \\ & \text{Total } \text{[gas pump icon]} \times \text{Default Emission Factor} \end{aligned} = \text{Transportation Sector Emissions} + \text{New policies based on non-data approaches}$$

Tier 2



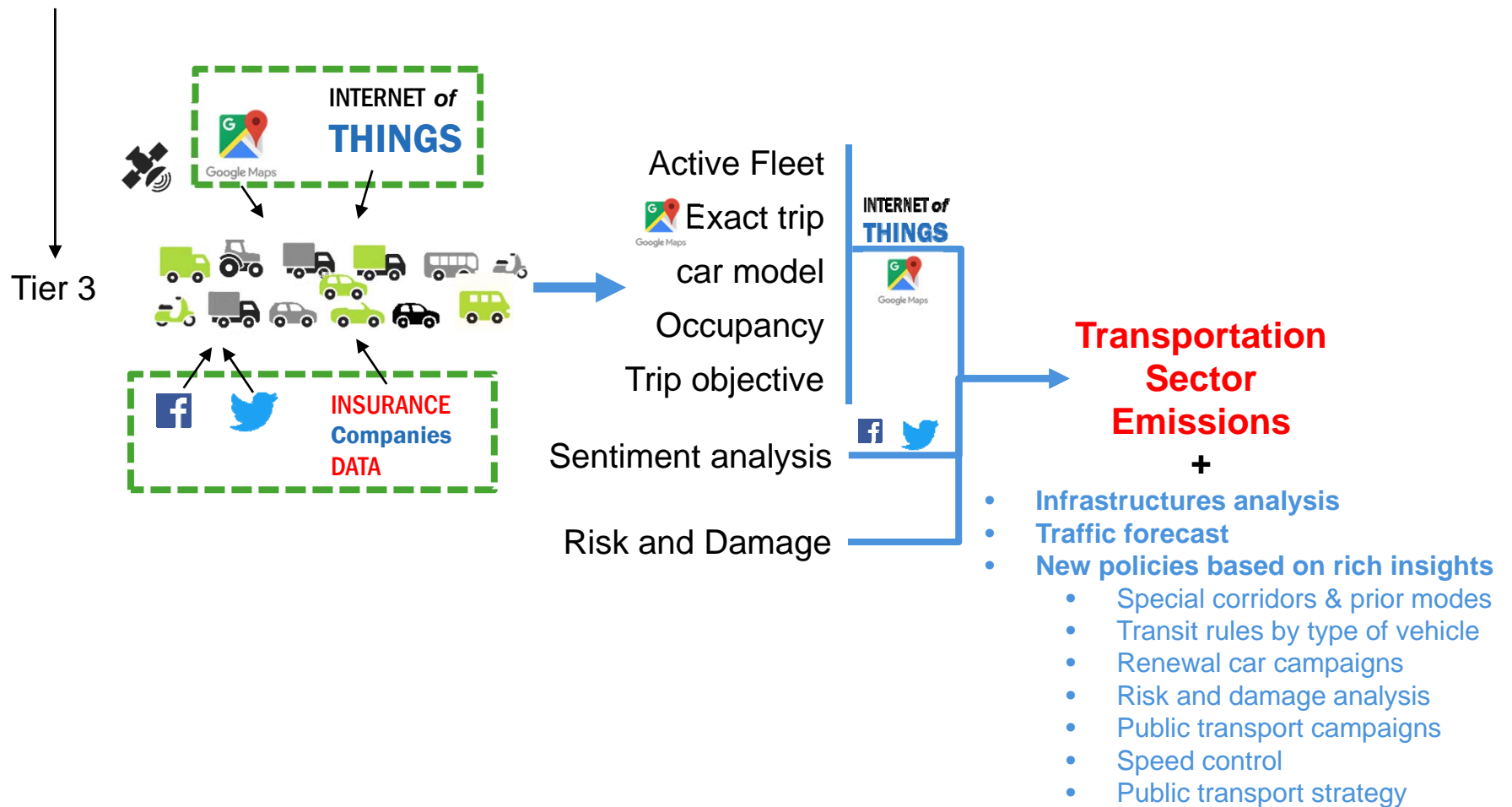
Tier 1 emission factors are readily available national or international (IPCCC)



New proposals in climate data collaboratives

Transportation Sector Emissions

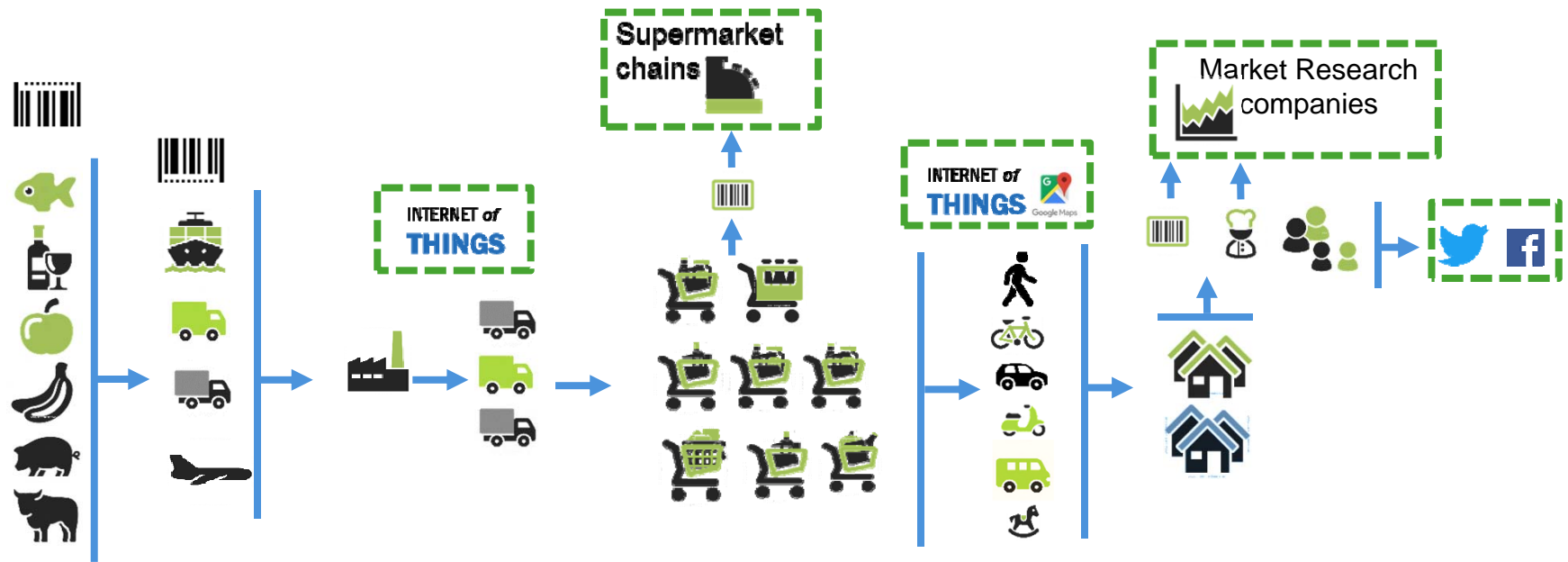
From Tier 1 to Tier 3 based on data collaborative approaches



New proposals in climate data collaboratives

Best practices

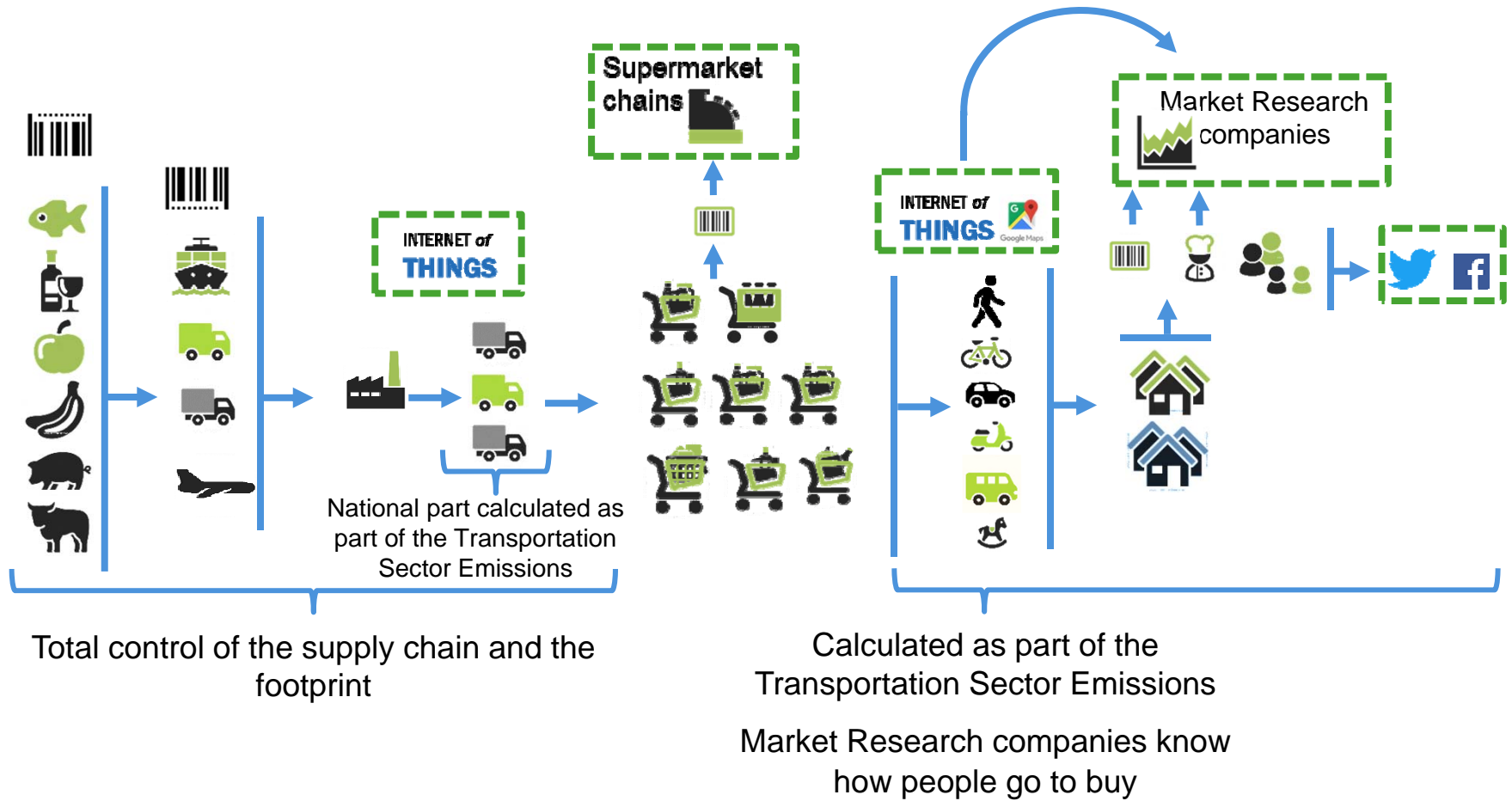
Consumers behavior emissions



New proposals in climate data collaboratives

Best practices

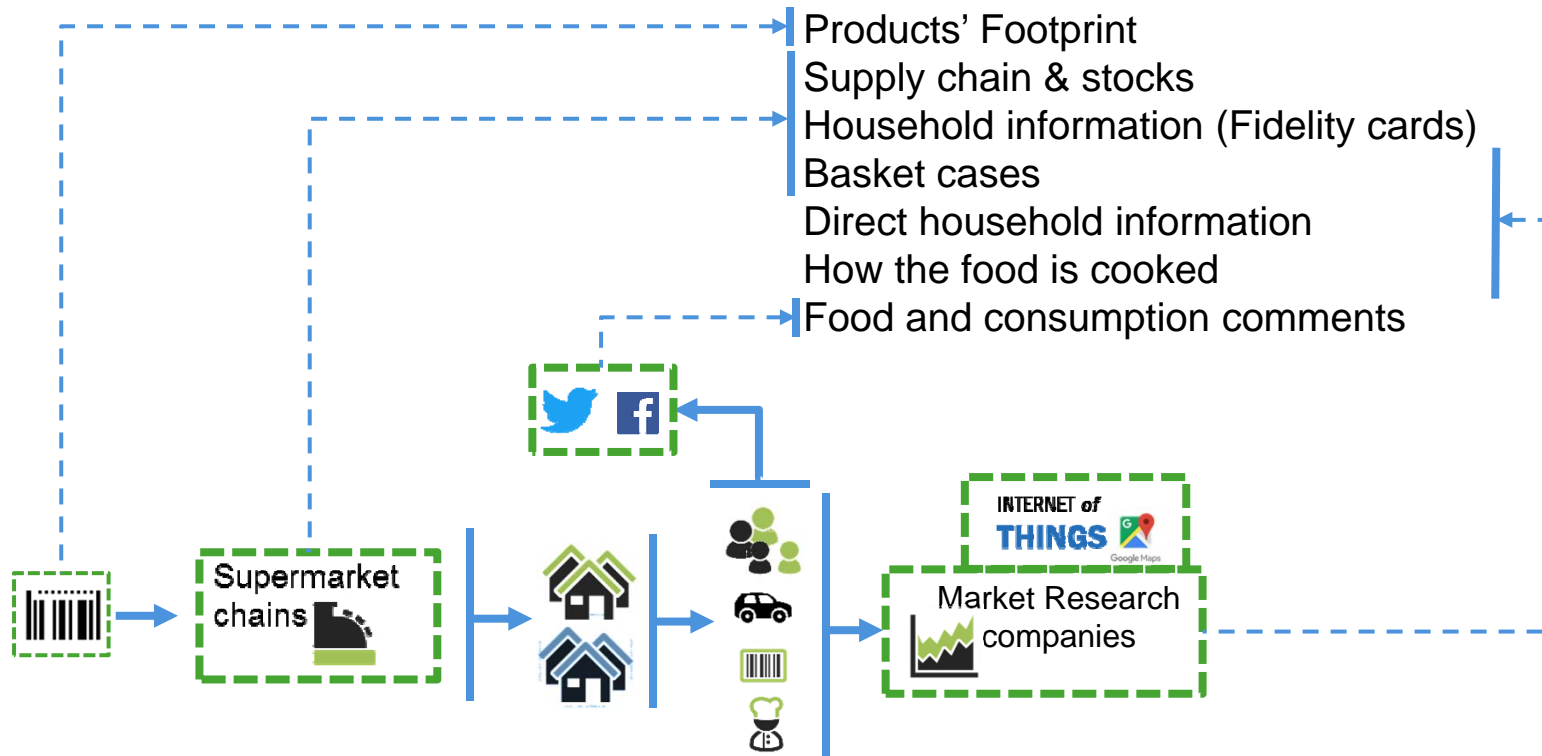
Consumers behavior emissions



New proposals in climate data collaboratives

Best practices

Consumers behavior emissions

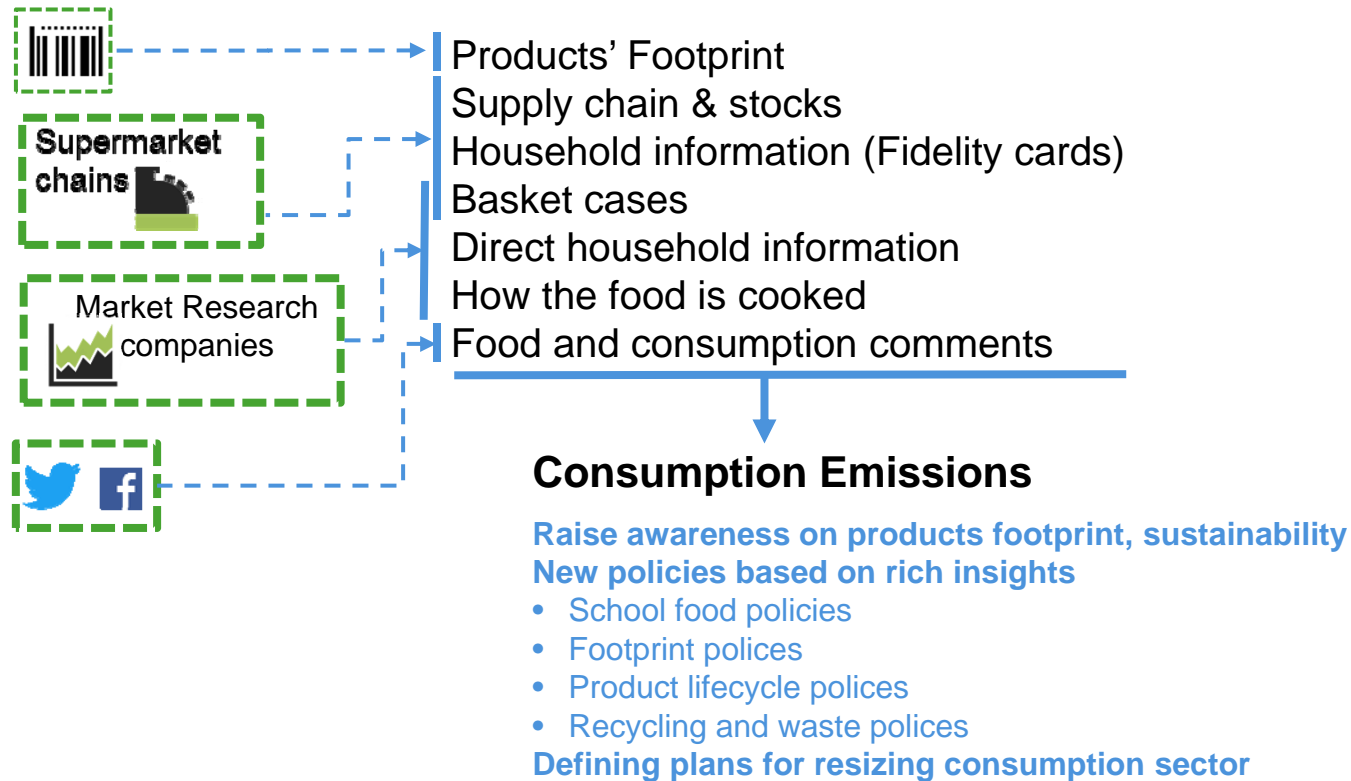


New proposals in climate data collaboratives

Consumers behavior emissions:

From Tier 1 to Tier 3 based on data collaborative approaches

Best practices



Conclusions, Benefits and Threats

Conclusions:

- The National Emission, emission reduction and many other climate indicators can be calculated without rich data.

Benefits:

- Possibility of generating **optimal climate change indicators** and **optimized policies** with data collaborative initiatives
- Data collaborative initiatives can improve the **alignment between Climate change agendas**
- Data collaborative initiatives has the potential to **speed up climate actions**

Issues:

- **Duplication of efforts** among countries
- **Low level of comparability** (difficulties with Standardization and harmonization)
- **Privacy**, national regulations and local **laws**
- **Private benefit vs public good**



Thanks for your attention

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