

# Session 3: Transport system optimization: logistics and inter-modality

## Introduction

Moderator: Professor Alan McKinnon

EU JRC / IEA Workshop

Future Role of Trucks for Energy and the Environment

Brussels 8<sup>th</sup> November 2016

Scoping of Logistics Interventions



logistics 
$$\neq$$
 transport



#### critical inter-dependence between technology, infrastructure and logistics

#### delimiting the boundary around logistics initiatives



Nature and scale of logistics interventions varies between long haul and urban freight operations

### Scoping the Road Freight Decarbonisation Effort



### Climate Change Mitigation Measures Specified for Freight in INDCs

Content of 158 INDCs for185 countries analysed 43% explicitly refer to passenger transport **13% explicitly refer to freight transport** 

Analysis by Sudhir Gota



% of INDCs specifying particular green freight measures

Macro-level Assessment of Potential Carbon Savings from Logistics Initiatives

### constraints

- lack of baseline data on current practice and adoption of initiatives
- variability of practice and related CO<sub>2</sub> impacts by company and sector
- inter-relationship between logistical activities difficult to isolate effect of specific interventions
- limited monitoring / disclosure of carbon impacts of past interventions
- little empirical data for the calibration of simulation models
- difficulty of assessing wider supply chain and environmental impacts

How can we overcome these constraints?

Positioning of the invited contributions



# **Possible Issues for Discussion**

What logistics interventions are likely to yield the greatest carbon savings in the road freight sector ?

How can companies be incentivised, individually and collectively, to implement them?

How close is the alignment between economic efficiency and carbon intensity in the management of logistics systems?



#### **Professor Alan McKinnon**

Kühne Logistics University – the KLU Wissenschaftliche Hochschule für Logistik und Unternehmensführung Grosser Grasbrook 17 20457 Hamburg GERMANY

tel.: +49 40 328707-271 fax: +49 40 328707-109

e-mail: <u>Alan.McKinnon@the-klu.org</u> website: <u>www.the-klu.org</u> www.alanmckinnon.co.uk