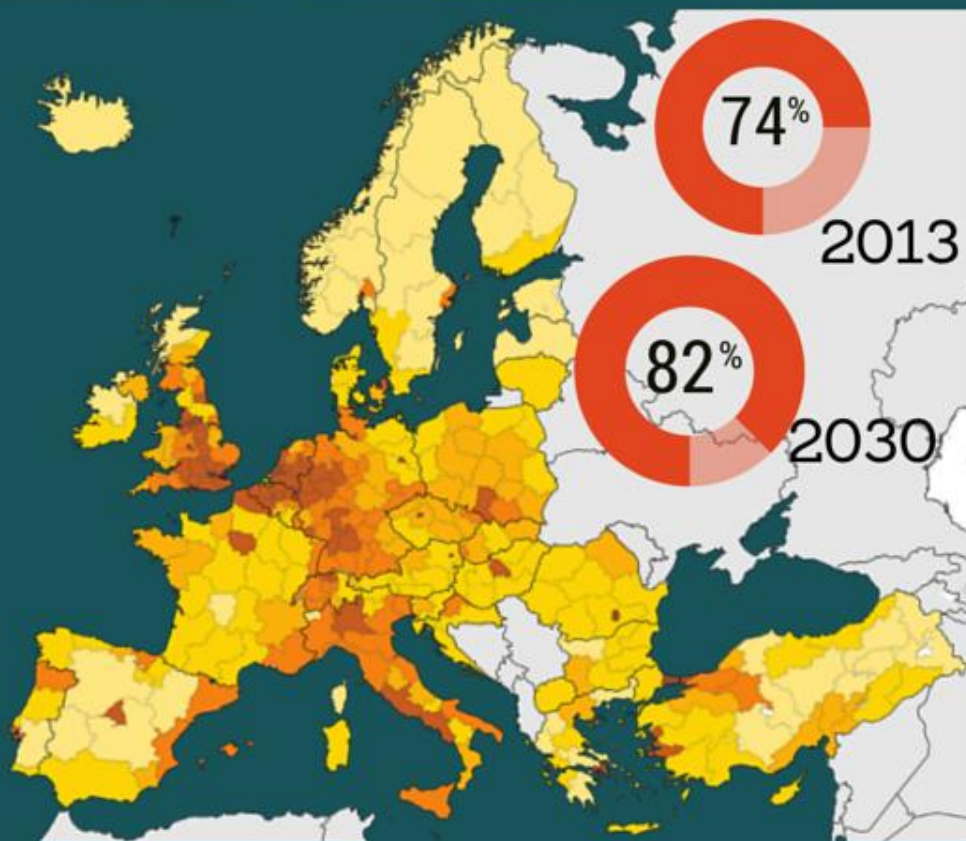


# **A Satellite-based Optimisation of the European Freight Transport Network**

EISC 2014 Plenary Conference  
20/10/2014  
Sophie Damy

## Background



Urbanisation



Transport demand

## Background



Transport depends on oil for 96% of its needs

24.3% of GHG emissions are due to transport and levels keep increasing ...



Decrease in life expectancy by almost a year

## Limitations

### Kyoto protocol

Emissions reduced to 40% below 1990 levels by 2030



Numerous independent  
initiatives



Need to see the  
bigger picture



# A Satellite-based Optimisation of the European Freight Transport Network

## Idea

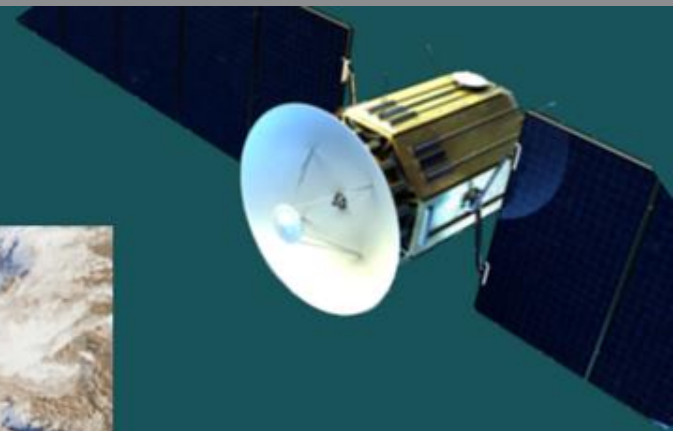
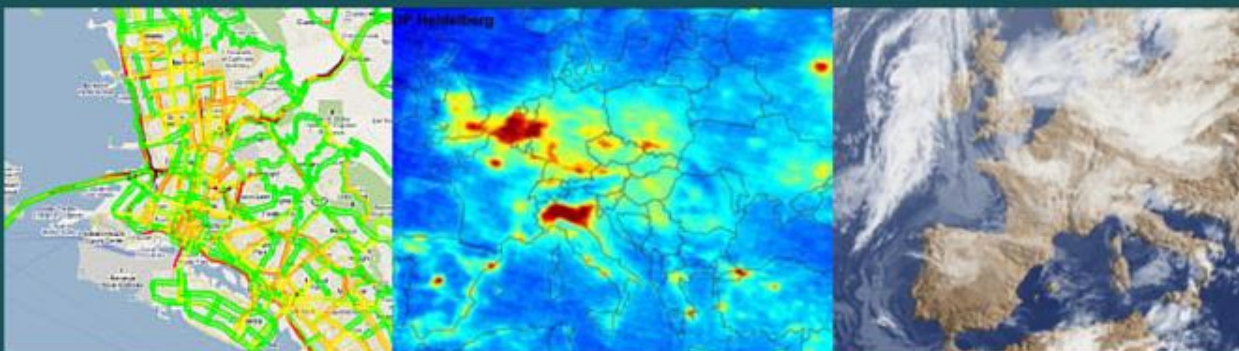


Use satellite data to realise an optimal multi-modal European freight network

# A Satellite-based Optimisation of the European Freight Transport Network

## Satellite data

Traffic, air pollution, weather alerts and fleet position



Transporter needs  
(shipment, origin,  
destination, schedule)



Network model



Possible routes and  
associated  
environmental cost



## Expected benefits



- Support transport demand increase while limiting congestion and emission
- Promote alternative transport modes and create new sustainable transport patterns
- Offer a framework to develop a European eco-tax
- Promote European Space activities



## Conclusion

### Sustainability

*'A development that meets the needs of the present without compromising the ability of future generations to meet their own needs.'*

Bruntland report



*Thank you for your attention*