

# Climate-KIC

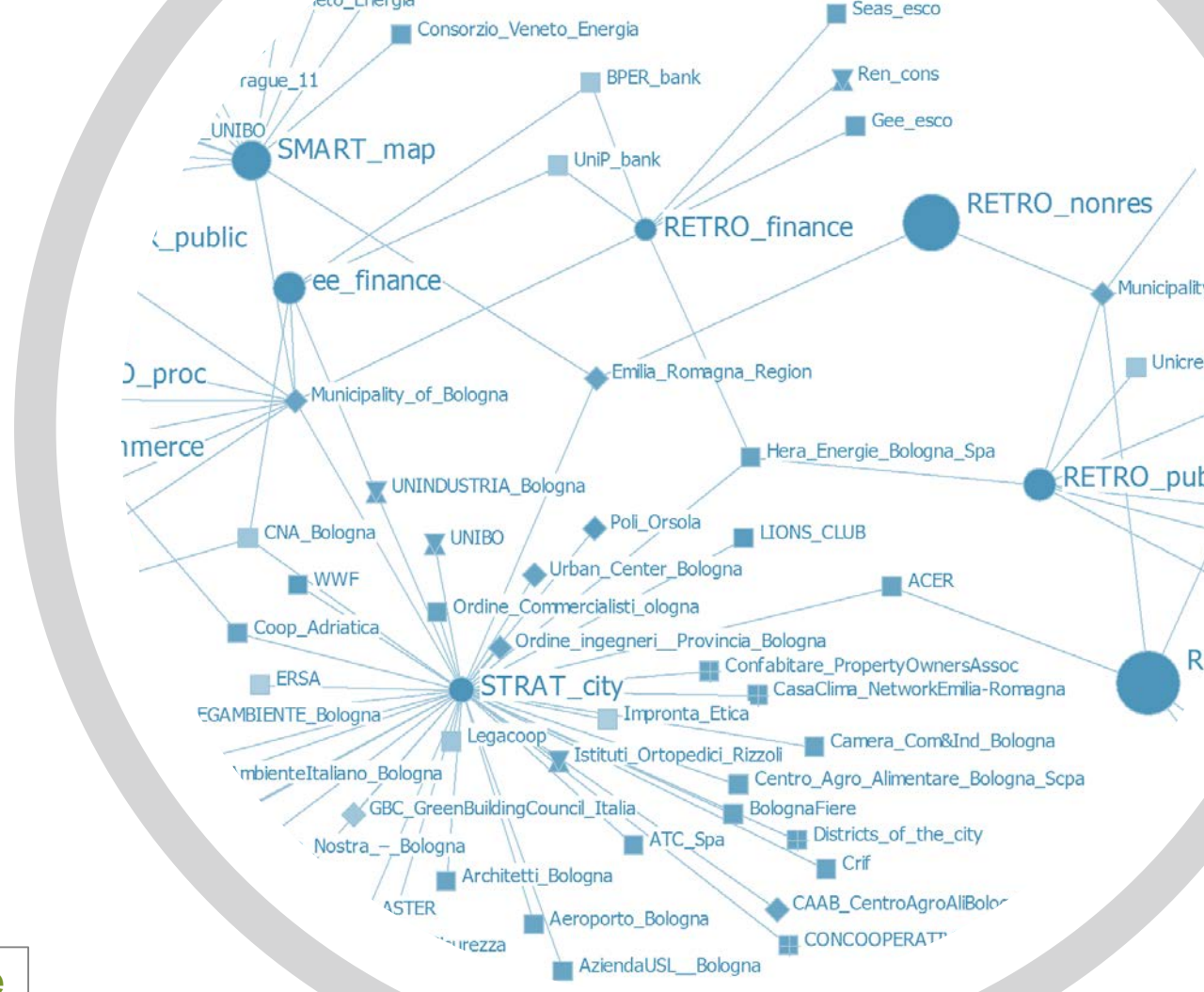
Driving smart climate action in Europe

## Mapping Horizon 2020 and ESIF priorities across Europe (II)

NCP Academy Training "Aligning implementation of RIS3 and H2020  
Funding across research priorities"



Climate-KIC is supported by the  
EIT, a body of the European Union



### Cluster network Map – City of Bologna

Elaborated with "Participatory Socio—Technical Mapping Approach"  
Transition cities project (2014-2017) Climate KIC

# Climate-KIC – Knowledge Innovation Community



We address climate change across four priority themes:



# What Our Partners Say


What our Partners value:

- Climate change is a systemic challenge – need systemic solutions.
- No one organisation is smart enough alone – we need collective smartness.
- Need to better connect supply and demand sides.
- Trust and honest broking are critical values in the Community.
- Pan-European connectivity and ability is important – and ability to work beyond Europe increasingly so.


# What's Going on with Europe and Climate Change?

**Energy Union & Climate one of the  
Headline Priorities**

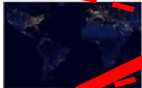
**Jobs, Growth and Investment**  
Stimulating investment for the purpose of job creation




**Digital Single Market**  
Bringing down barriers to unlock online opportunities




**Energy Union and Climate**  
Making energy more secure, affordable and sustainable




**Internal Market**  
A deeper and fairer internal market




**A Deeper and Fairer Economic and Monetary Union**  
Stability for the single currency, solidity of public finances and social fairness in implementing structural reforms



**A balanced EU-US Free Trade Agreement**  
Freer trade – without sacrificing Europe's standards



**Justice and Fundamental Rights**  
Upholding the rule of law and linking up Europe's justice systems



**Migration**  
Towards a European agenda on Migration

**A Stronger Global Actor**  
Bringing together the tools of Europe's

**Democratic change**  
Making the EU more democratic

**But Climate is complex .....and its  
about more than just energy**

Climate (Themes)	Energy	Digital	Raw Material	Health	Food	Mobility	EIT (wider innovation agenda)
Cities	***	***	*	**	**	***	**
Production	**	*	***				*
Land Use	**	*	*	**	***	**	*
Finance & Insurance	**	**		*	*	*	*
Capacity/ skills	**	**	**	**	**	**	***

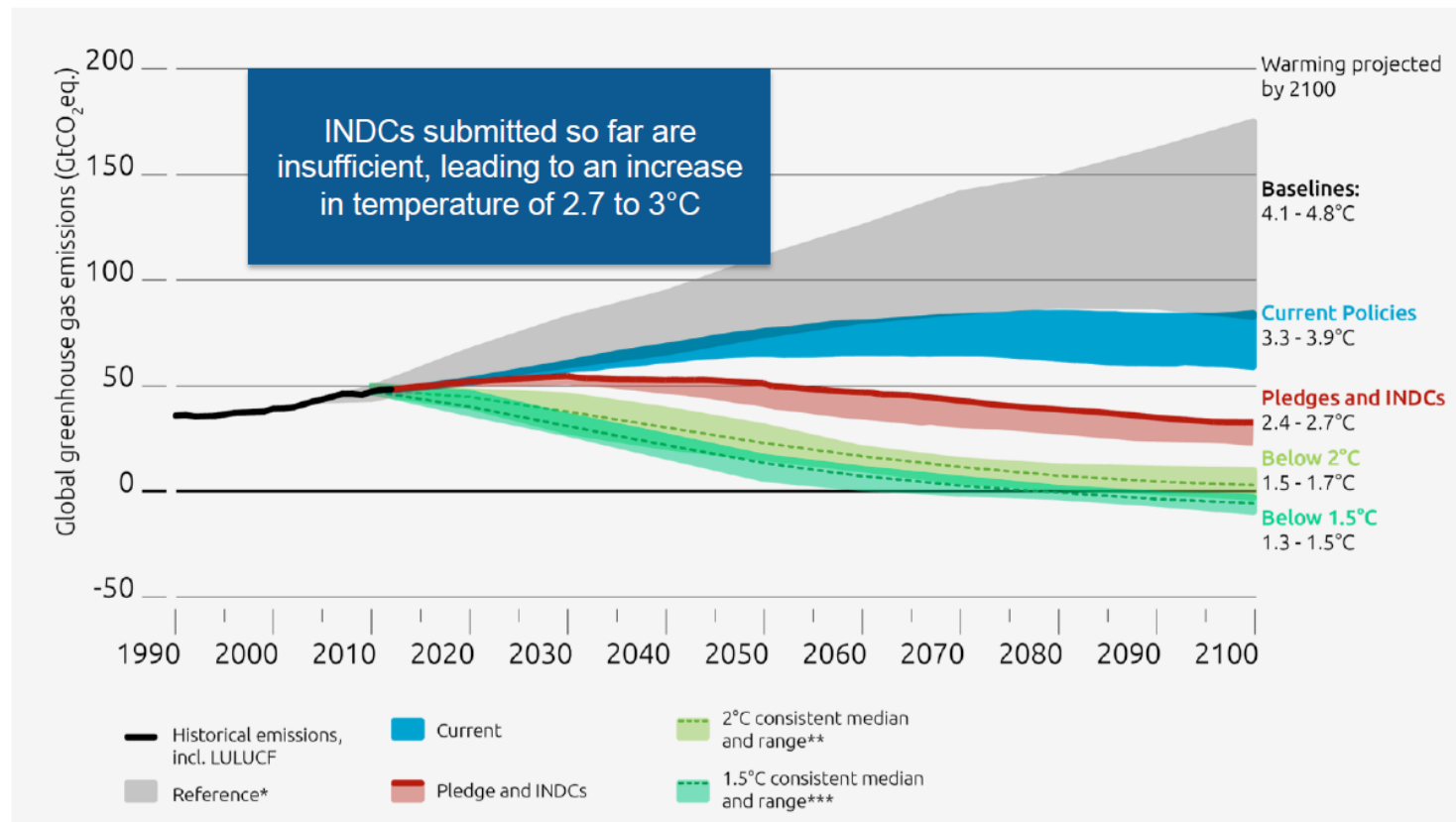
- \*\*\* Strong synergy to drive collaboration
- \*\* Moderate synergy to consider shaping collaboration
- \* Possible synergy

**Table A: Mapping the Climate-KIC Themes with the potential for synergy with other members of the KIC family.**

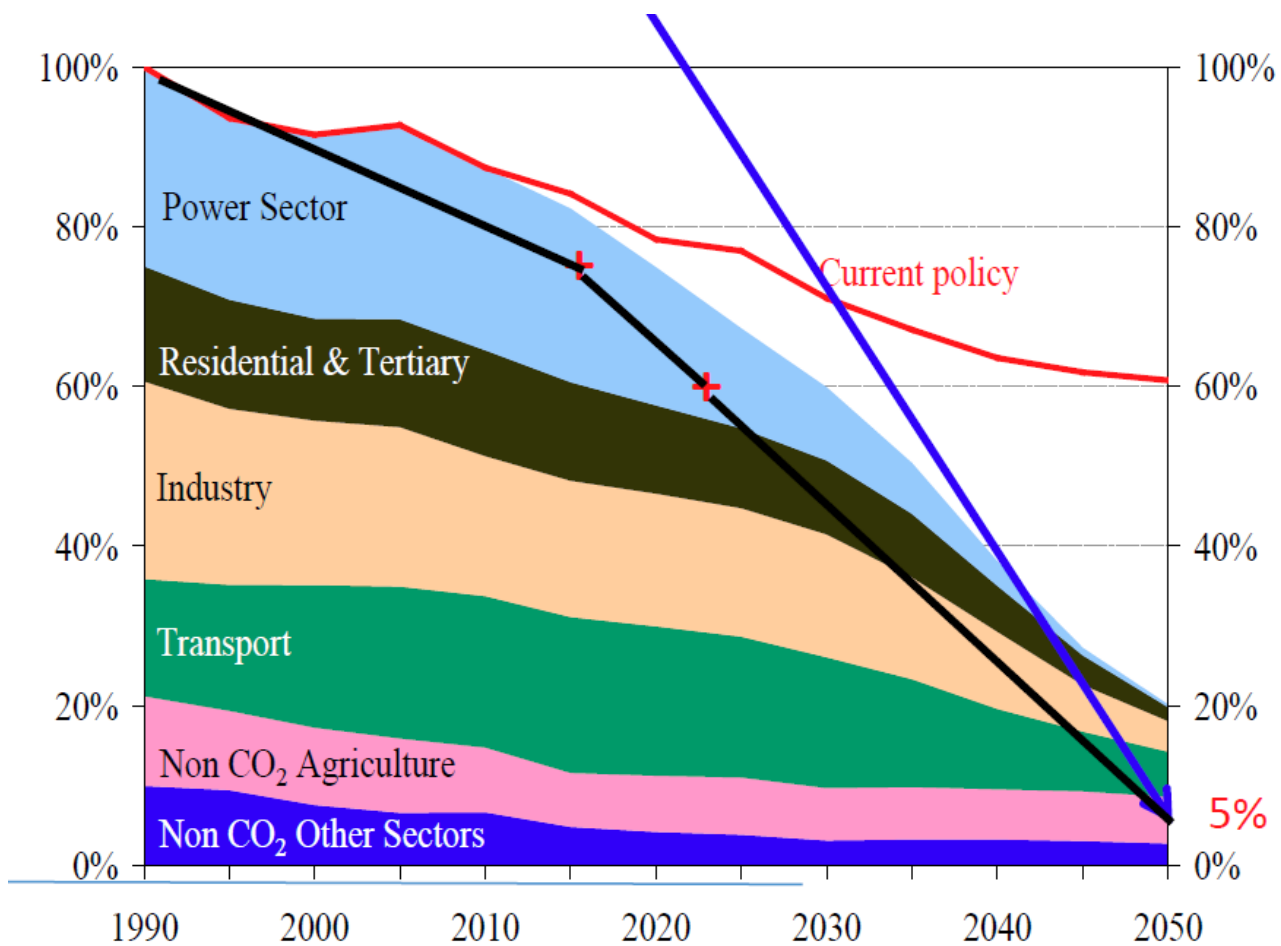
# The Challenge: CO2 Emissions Perspective

## Higher ambition is needed

### Effect of current pledges on global temperature

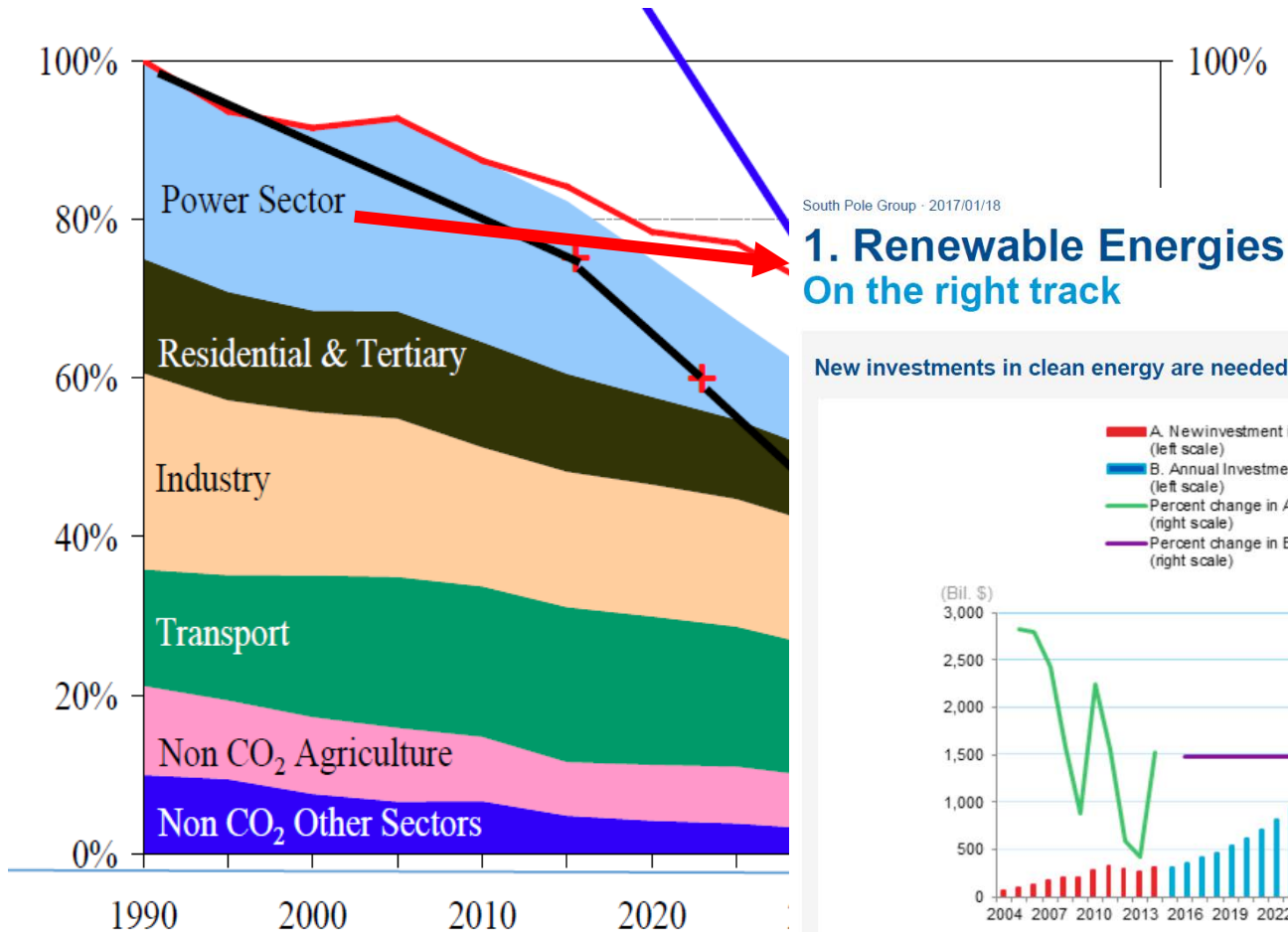


# The Challenge: Energy Use Perspective

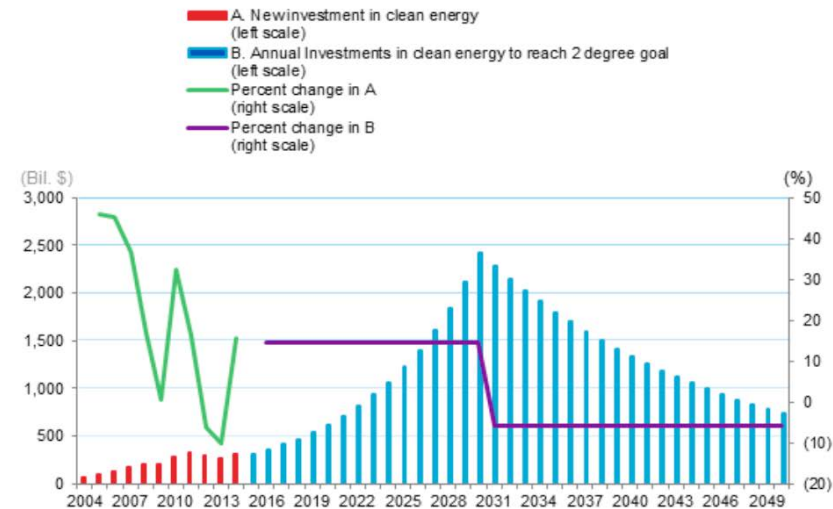




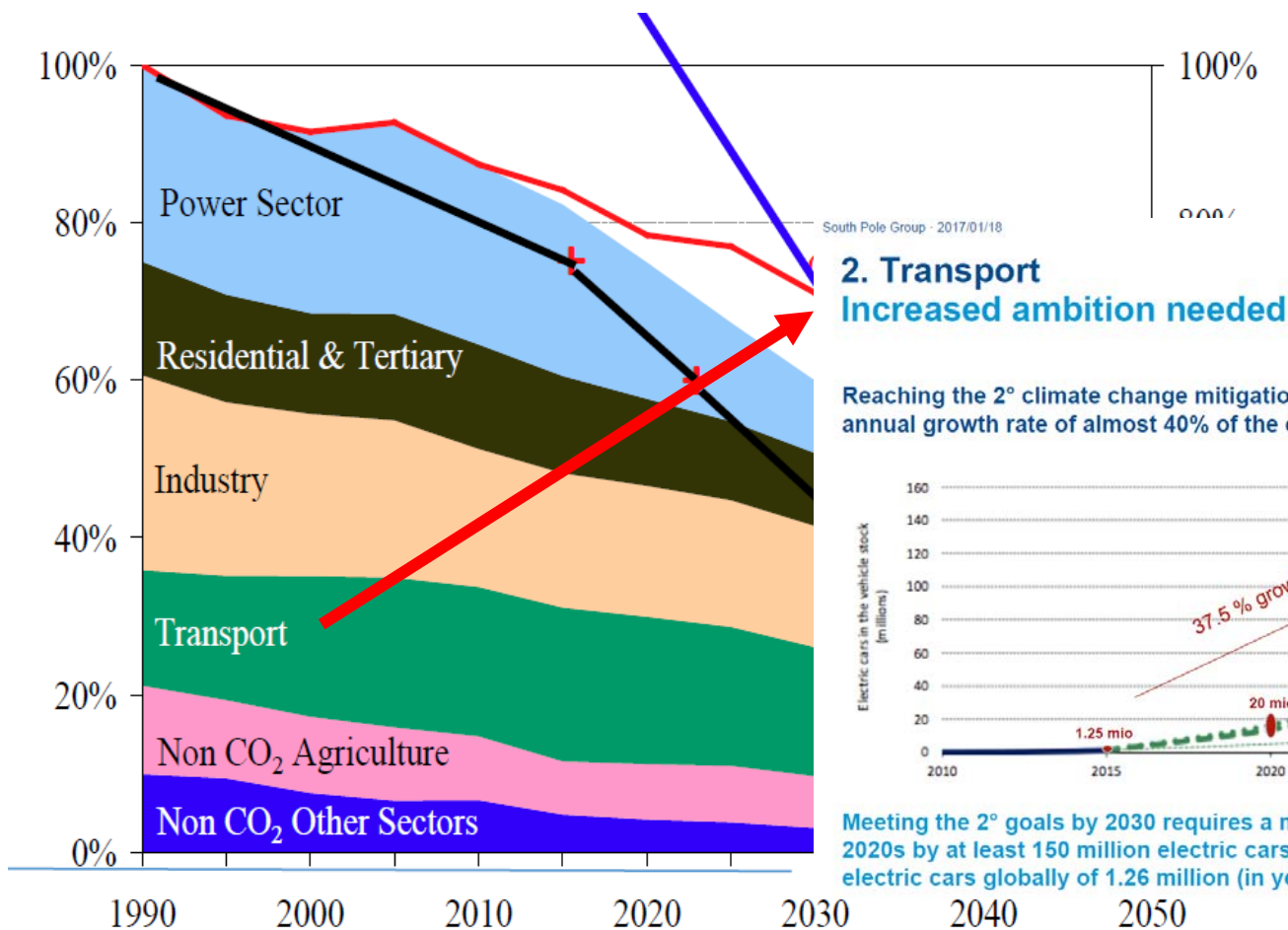
# The Challenge: Energy Use Perspective



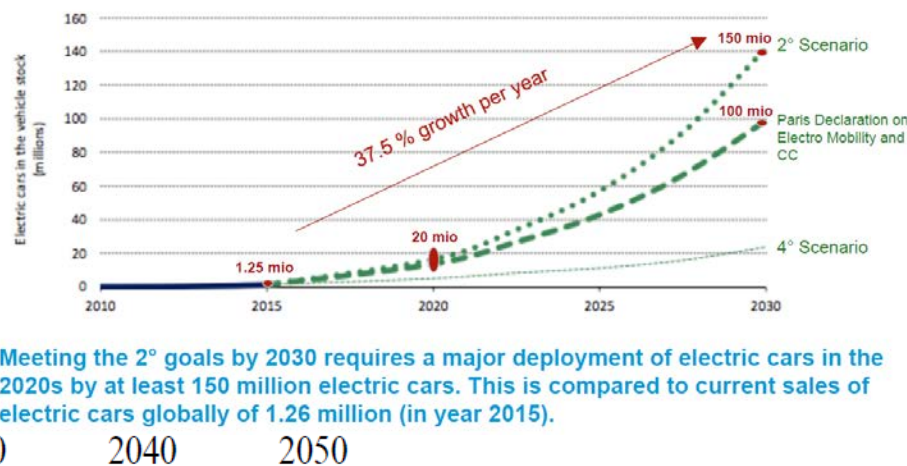
New investments in clean energy are needed to meet the 2°C goal - but we are on the right track.



# The Challenge: Energy Use Perspective



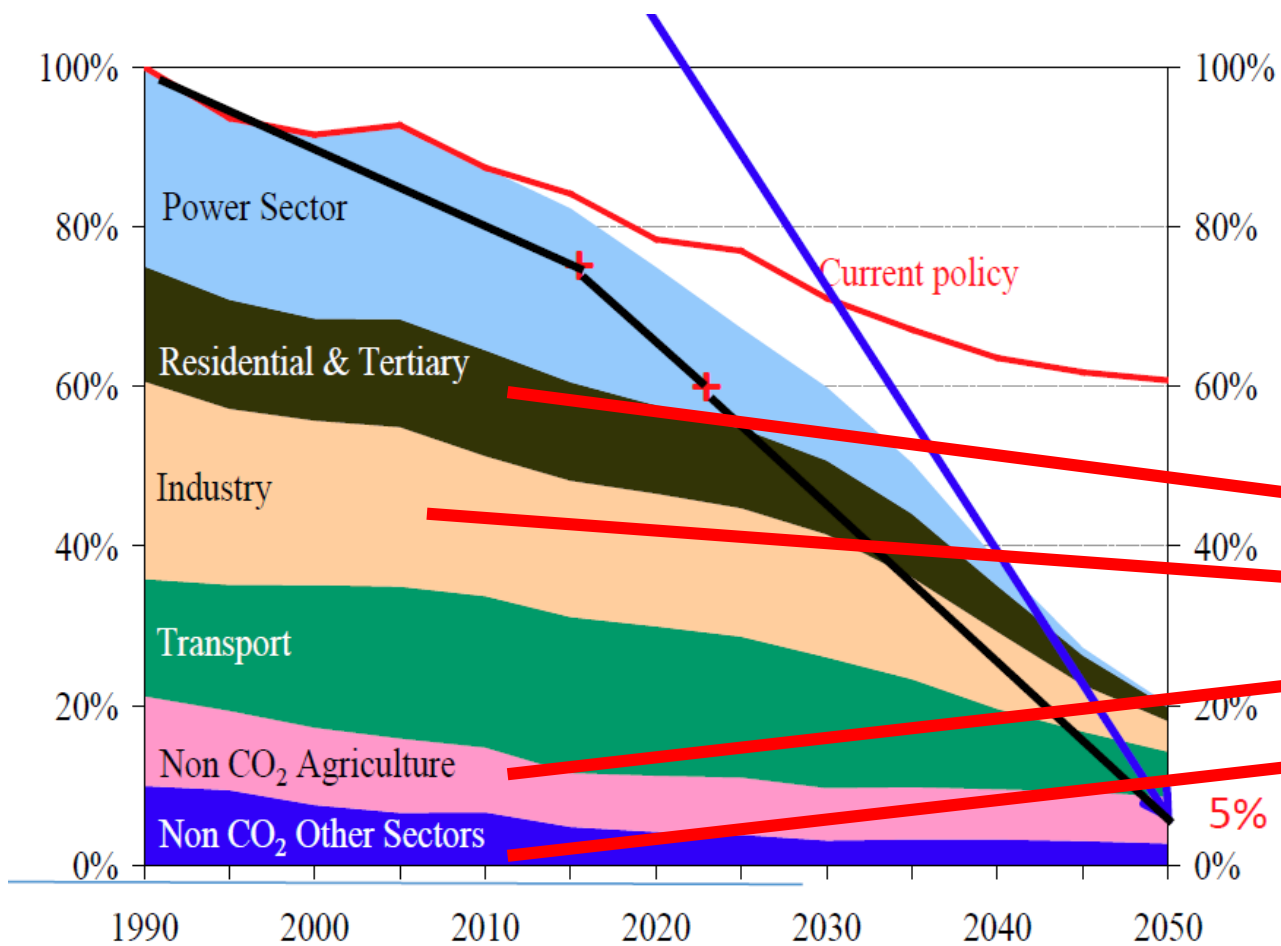
Reaching the 2° climate change mitigation targets through electrification requires an annual growth rate of almost 40% of the electric car stock:



Meeting the 2° goals by 2030 requires a major deployment of electric cars in the 2020s by at least 150 million electric cars. This is compared to current sales of electric cars globally of 1.26 million (in year 2015).



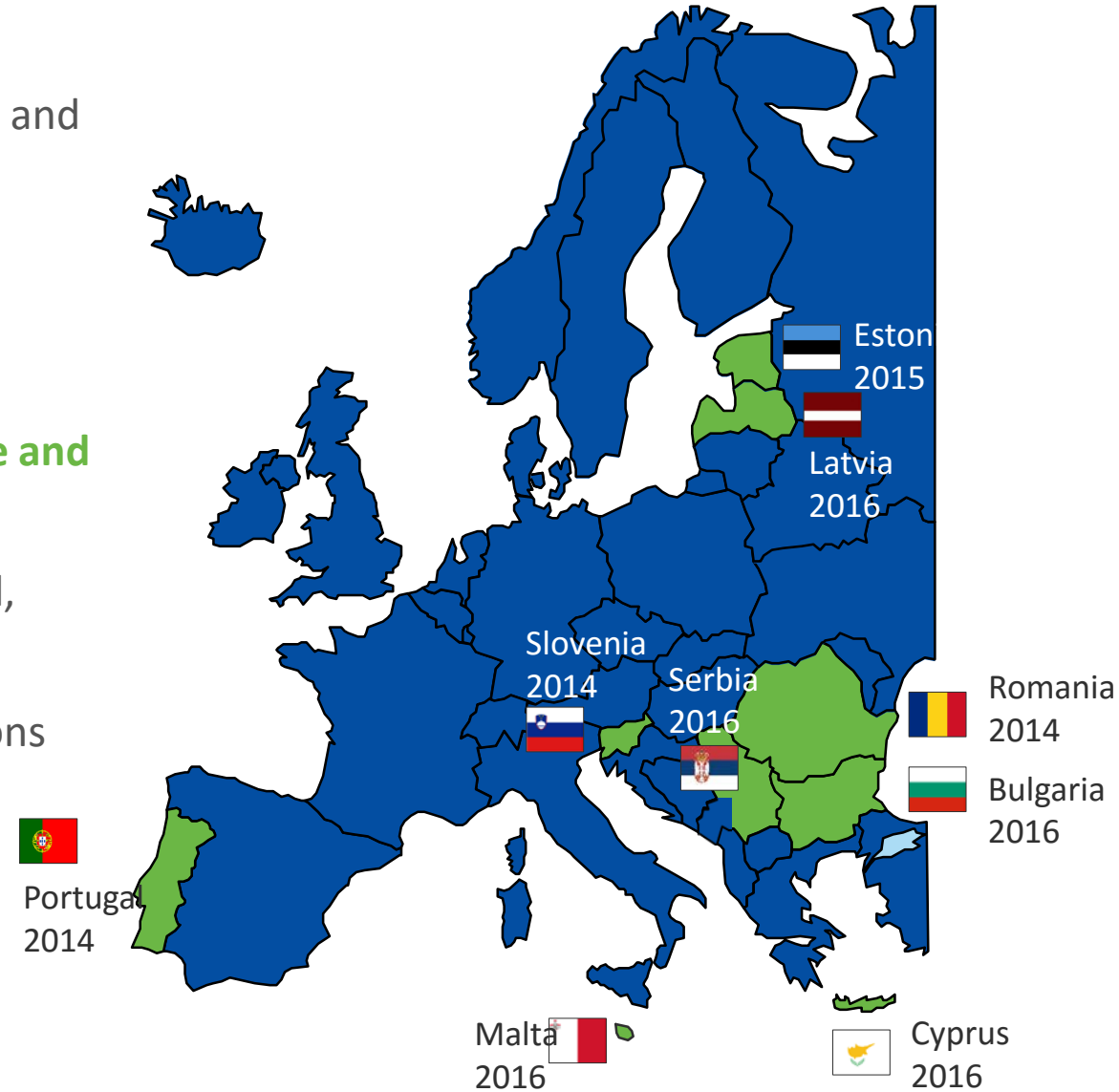
# The Challenge: Energy Use Perspective



**Much more  
ambition  
needed**

# Climate KIC's RIS Network

- **Stimulate low carbon innovation** in EIT RIS countries, regions and cities and significantly boost their capacity to implement the highest impact ideas
- Become part of Climate-KIC's community of leading climate change innovators
- Boost regional **stakeholders' role as multipliers of knowledge and expertise**
- **Reinforce synergies and complementarities** with EU, national, regional innovation initiatives and funding sources
- Spearhead development of relationships with countries/regions using their **Smart Specialisation Strategies** and develop and activate large-scale "green" projects targeting **ESIF and ERDF** provision



# Climate-KIC EIT RIS – What Are You Doing?

Country	Intervention field	Climate Change Amount (K€)	Status
BULGARIA	Railways (TEN-T Core)	903.116	Approved 11/2015
	Energy efficiency and demonstration projects in SMEs		
	Clean urban transport infrastructure and promotion		
	Energy efficiency renovation of existing housing stock, demonstration projects		
	Energy efficiency renovation of public infrastructure demonstration projects		
PORTUGAL - Centro Region	Cycle tracks and footpaths	209.972	Final draft. Pending approval
	Energy efficiency renovation of public infrastructure demonstration projects		
	Development and promotion of enterprises specialised in providing services contributing to the low carbon economy and to resilience to climate change		
	Support to environmentally-friendly production processes and resource efficiency in SMEs		
	Research and innovation infrastructure, processes, technology transfer and cooperation in enterprises focusing on the low carbon economy and on resilience to climate change		
	Energy efficiency and demonstration projects in SMEs and supporting measures		
	Promotion of energy efficiency in large enterprises		
CYPRUS	Clean urban transport infrastructure and promotion	78.415	Approved 03/2015
	Energy efficiency renovation of public infrastructure demonstration projects		
	Energy efficiency renovation of existing housing stock, demonstration projects		
	Energy efficiency and demonstration projects in SMEs		
	Adaptation to climate change measures and prevention of climate change		
MALTA	Renewable energy: solar	66.48	Approved 02/2014
	Water management and drinking water conservation		
	Environmental measures aimed at reducing and / or avoiding gas emission		

Target country	C-KIC Theme			
	Sustainable Land Use	Sustainable Production	Urban Transition	Decision Metrics and Finance
Bulgaria	Mechatronics and clean technologies; Informatics and ICT; Health and biotechnologies	Mechatronics and clean technologies; Health and biotechnologies; Resources efficiency	Mechatronics and clean technologies; Resources efficiency	Mechatronics and clean technologies;
Cyprus	Sustainable tourism; Energy; Agriculture	Energy; Agriculture; Construction Industry	Sustainable tourism; Energy; Construction Industry	
Environment (horizontal priority)				
Malta	Rural development	High Value-added Manufacturing with a focus on processes and design	Resource-efficient buildings	Capacity building for excellence in climate change adaptation
PT Centro Region	Efficient use of natural endogenous resources; Territorial innovation; Agriculture; Forest; Sea	Sustainable industrial solutions; Efficient use of natural endogenous resources; Territorial innovation; Sea; Biotechnology	Efficient use of natural endogenous resources; Territorial innovation; Tourism	Sustainable industrial solutions; Efficient use of natural endogenous resources; Territorial innovation; Forest

## Summary:

- A lot of focus on energy – following the renewables wave
- ICT & Health score high....
- Not enough focus on climate, environment or the difficult bits of energy
- Little cross-sectorial systemic innovation
- This isn't going to be enough to meet the Paris Agreement

# Smart Sustainable Districts: Joined up infrastructure





# Smart Sustainable Districts: Joined up infrastructure

**We are looking for several new districts in Southern Europe, in particular the following countries:**

**Cyprus  
Italy  
Malta  
Portugal  
Slovenia  
Spain**

**DEADLINE FOR EXPRESSION OF INTEREST: 31st March 2017**

**Contact:**

**Julia Panny ([julia.panny@climate-kic.org](mailto:julia.panny@climate-kic.org))**

**Chris Mazur ([c.mazur@imperial.ac.uk](mailto:c.mazur@imperial.ac.uk))**



## H2020 Prospect (2017)

*An example of an innovation project to foster local capacity building*

- **Call:** Energy Efficiency Call 2016-2017, type of action: Coordination and support action
- **Project Title:** Peer Powered Cities and Regions
- **Main goal:** to enable peer to peer **learning in regional and local authorities** in order to finance and implement **sustainable energy plans**. The learning will empower them to make use of **best practices in developing financing** for these plans.
- **Key “network” partners:** ENERGY CITIES, European Federation of Agencies and Regions for Energy and the Environment (FEDARENE) , EUROCITIES ASBL, CLIMATE-KIC
- **Climate-KIC priorities:** developing of **learning materials for practitioners, certification of professional competences**, test and validate **tools and methods for problem solving**



# Future Risk?

*“The next round of grants from the EU’s billion-euro research fund will focus on four priorities that are essential for people and can bring change: **food, water, health and energy**”, the EU Commissioner for Research Carlos Moedas said 16 Feb 2017 – speaking about the successor to H2020 (2021-2027).*

- We need strong cross-sectorial innovation as well as strong sectors
- We drop climate off the agenda at our peril





[climate-kic.org](https://climate-kic.org)

[transitions.hub@climate-kic.org](mailto:transitions.hub@climate-kic.org)



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EIT, a body of the European Union