

The mix of ambitious climate and energy policies

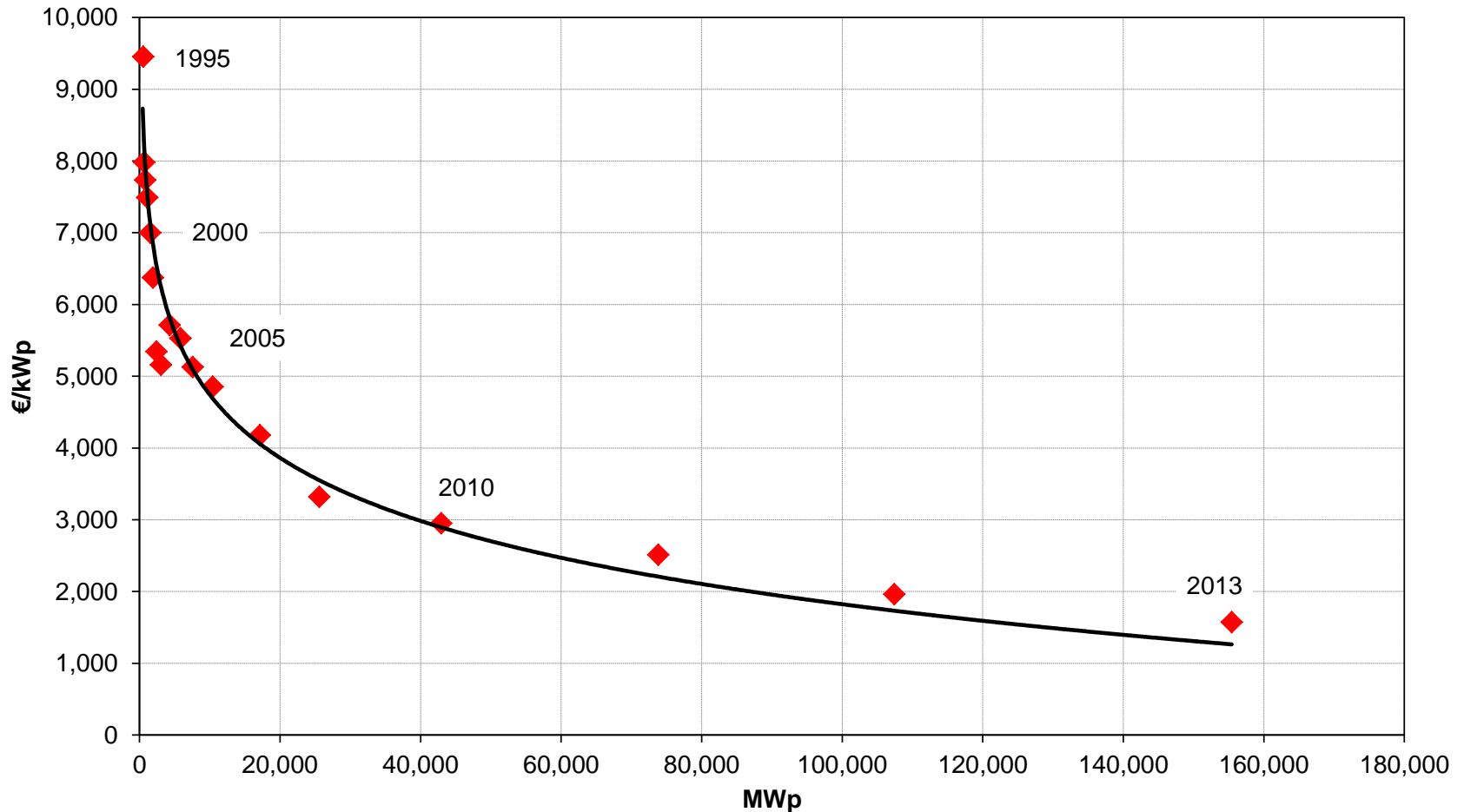
**International Conference on
Policy Mixes in Environmental and Conservation Policies**

**Dr Felix Chr Matthes
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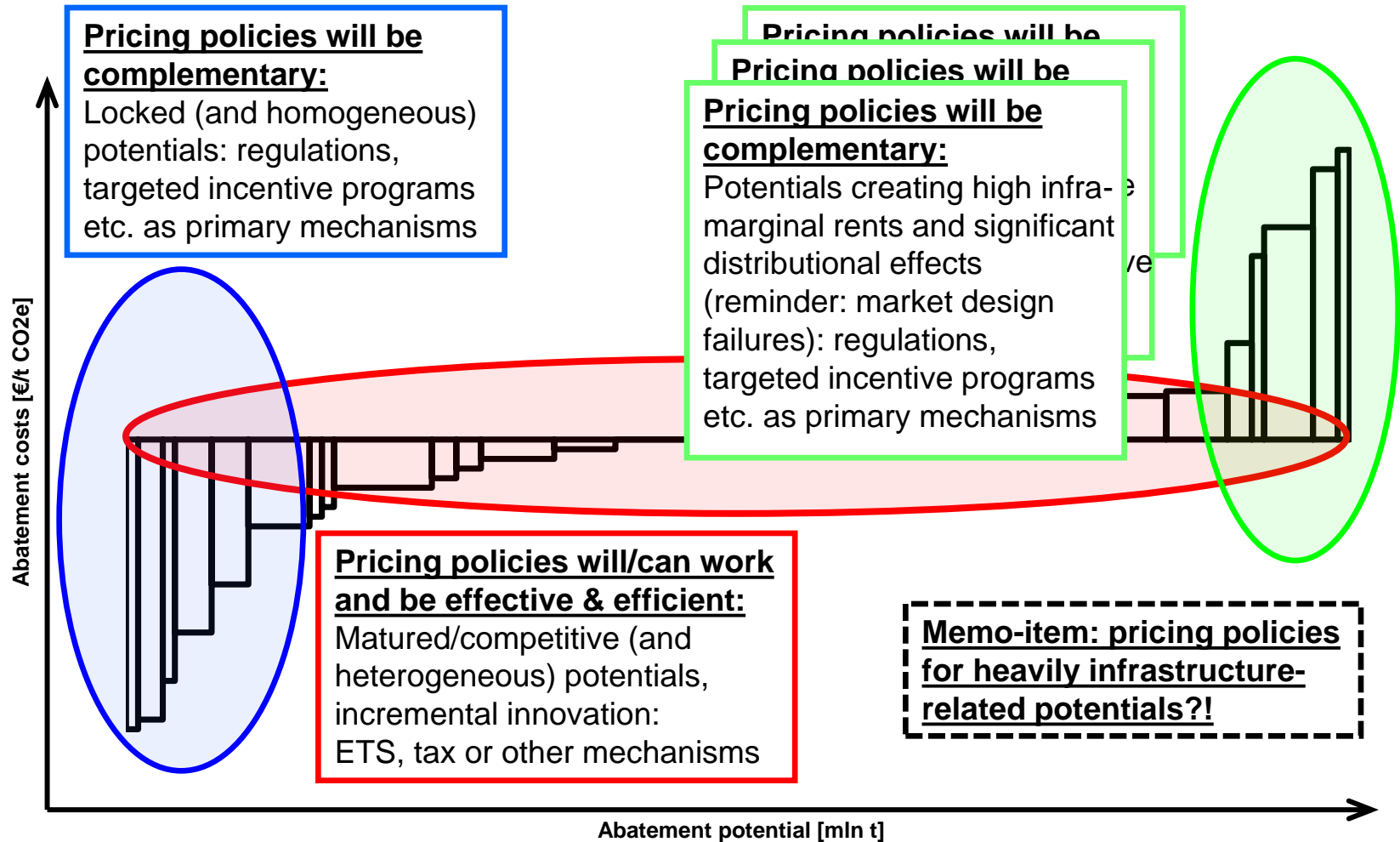
- **Energy & climate policy has always been characterized by a combination of policy tools**
 - by historical reasons: long traditions (and institutional arrangements!) in energy policy and conventional environmental policies and climate policy as a rather young policy track
 - by a variety of targets: energy independence & security, emission reductions, maintaining industrial basis, driving innovation, distributional aspects, etc
- **Emissions trading as a game changer/key challenge – at least for the economic and political discourse**
 - A cap fixes the emission reduction targets and all other policies lose legitimation – at least with respect to emission reductions
 - ETS is however in a deep crisis
 - not (yet) primarily caused by complimentary policies
 - delivering (at the moment) effects only from a holistic perspective (prices vs. long-term caps)

- **Empirical evidence underlines the real-world trend towards policy mix approaches**
 - European Union: Multi-dimensional targets, partial ETS and a broad range of additional (complementary?) policies
 - California: GHG reduction target, (almost) economy-wide ETS and a broad range of additional (complementary?) policies
 - Australia (before policy stopped): GHG reduction target, economy-wide ETS and a broad range of additional (complementary?) policies
- **Reasons for these trends**
 - Multi-dimensional targets did not disappear
 - The nature of climate policy is rather transformational than incremental
 - based on rather aggressive emission reduction targets
 - requiring radical innovation
 - reflecting windows of opportunities for (cost-efficient) emission reductions linked to durable capital stocks
 - However, to a certain extent often arbitrary – more foundation needed

Learning curves worked for PV – but (definitely) not for all other options

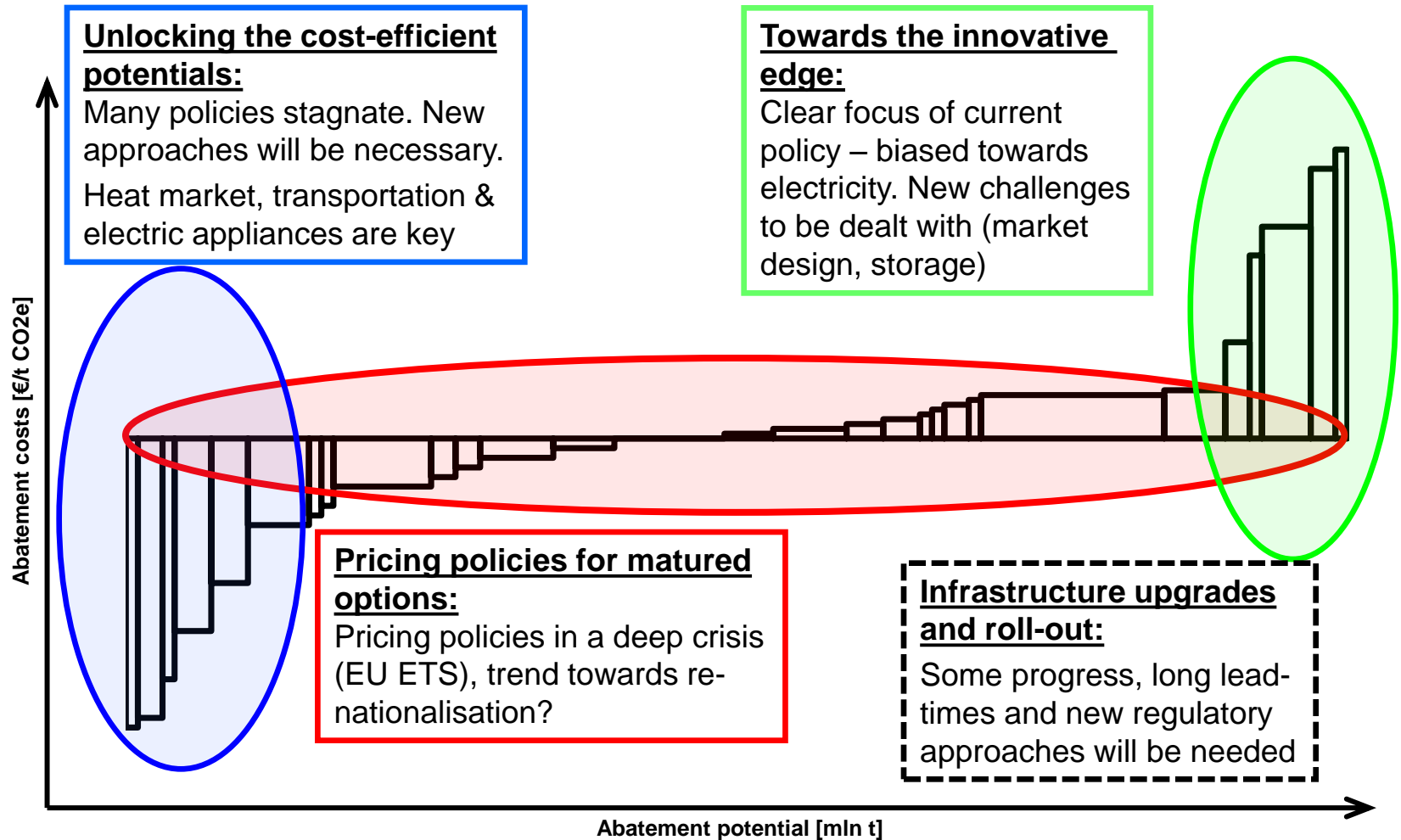


A comprehensive and well-designed policy mix for ambitious, effective & cost-efficient



Current policy is partly on different tracks

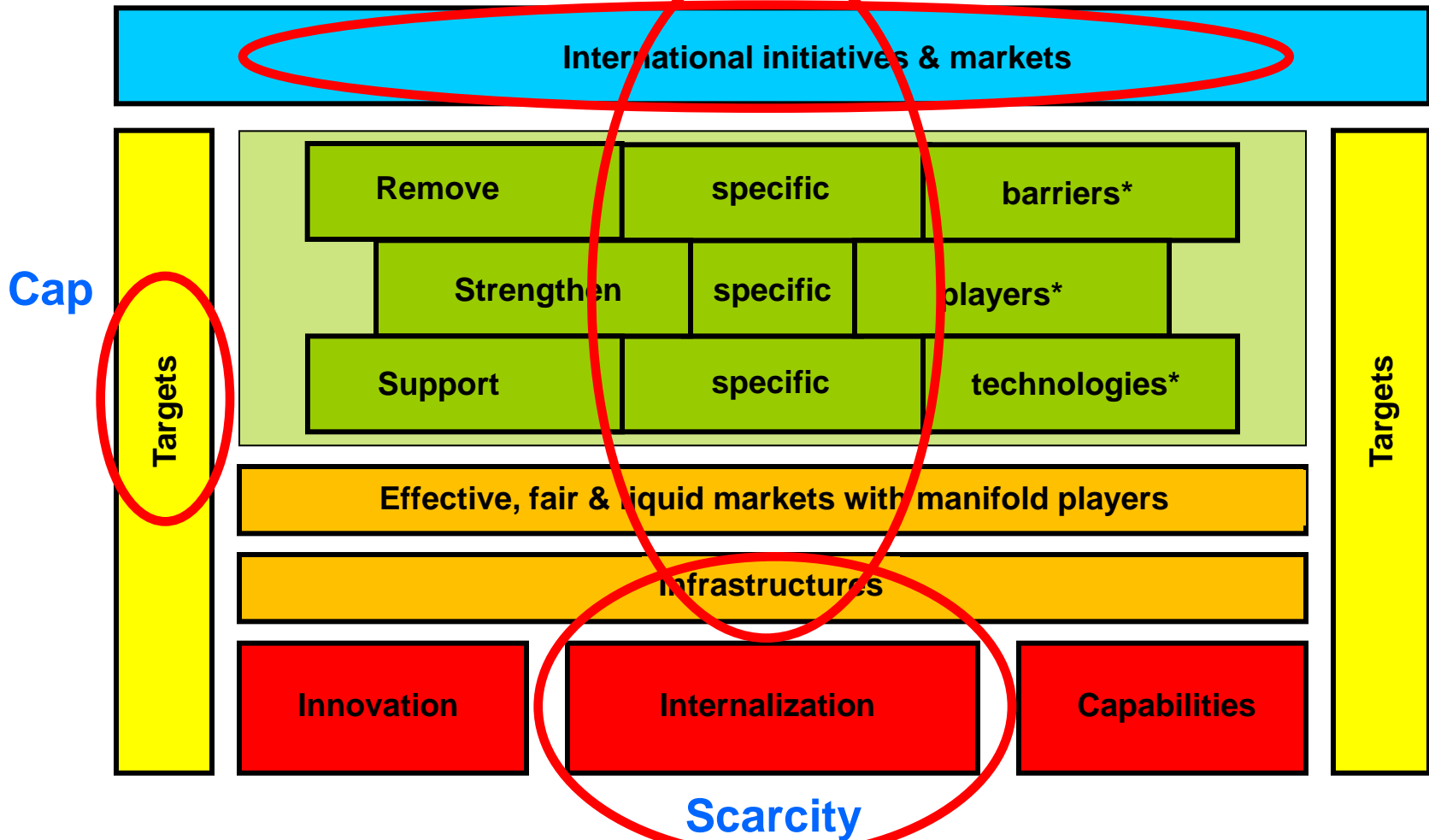
Adjustments will be necessary



Climate policy = Carbon pricing & much more

$$T \cdot (I^2+C) \cdot I \cdot m (F,L, P) + s(B,P,T) + (I_i+M_i)$$

Linking Allocation Auctions & revenue spending



* Evaluate, modify & eliminate specific policies, if necessary

- **Ambitious energy & climate policies will require a well-founded and less arbitrary policy mix**
 - for certain segments with carbon pricing as primary policy and other complementary policies
 - for other segments with other primary policies and carbon pricing as complementary policy
 - with market design failures as a new challenge
- **The well-designed policy mix needs more analytical capabilities**
 - (more) careful policy mapping exercises needed
 - (more) comprehensive analysis of policy interactions indispensable
- **The trend towards a comprehensive policy mix will – among other reasons – change the design of carbon pricing instruments**
 - reflecting macroeconomic uncertainties
 - reflecting the existence of complementary policies
 - reflecting the outcome of complementary policies
 - resulting in more hybrid-type policy tools (e.g. EU ETS with MSR)

Thank you very much

Have a look at

<http://www.oeko.de/oekodoc/1068/2010-114-en.pdf>

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