The global energy landscape and the impact on the EU energy transition

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Demand growth in Asia

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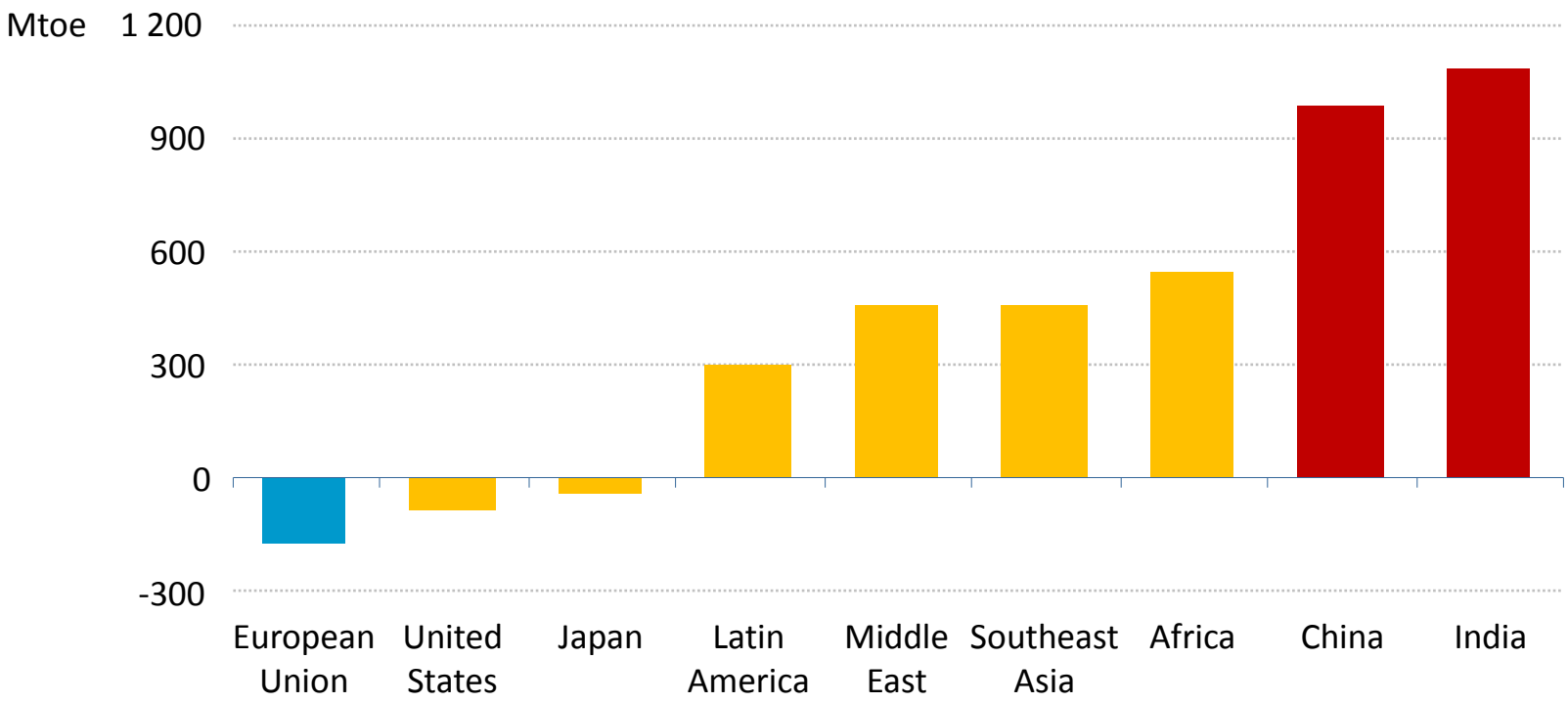
Change in energy demand in selected regions, 2014-2040



Energy use worldwide grows by one third to 2040, driven by Asia; EU energy demand declines by 15% over the period

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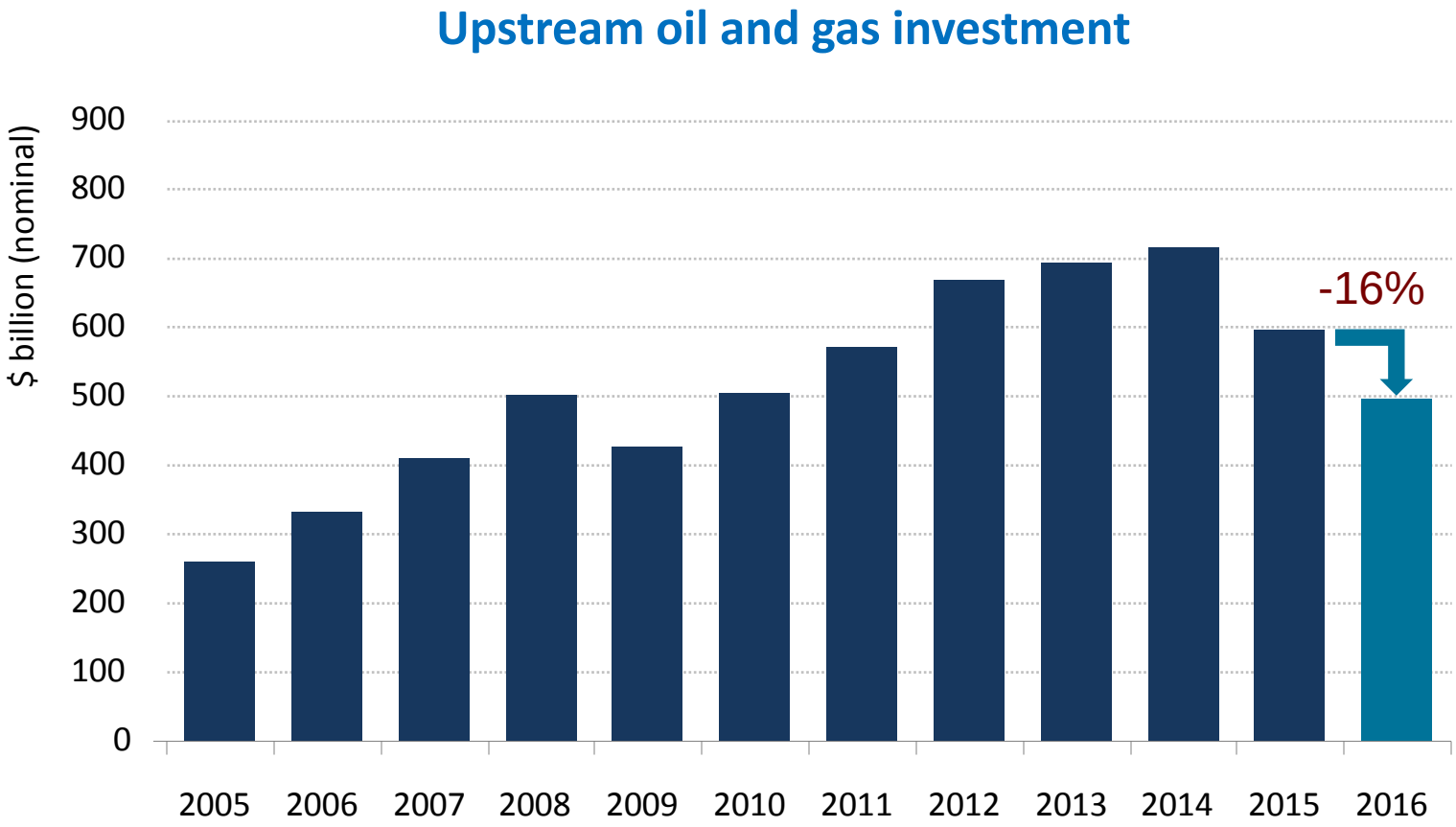
Upstream oil and gas investment continues to fall



Upstream oil and gas investment continues to fall, particularly in high-cost regions; this raises the prospect of increasing reliance on the Middle East in the future

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Global energy emissions – peaked?

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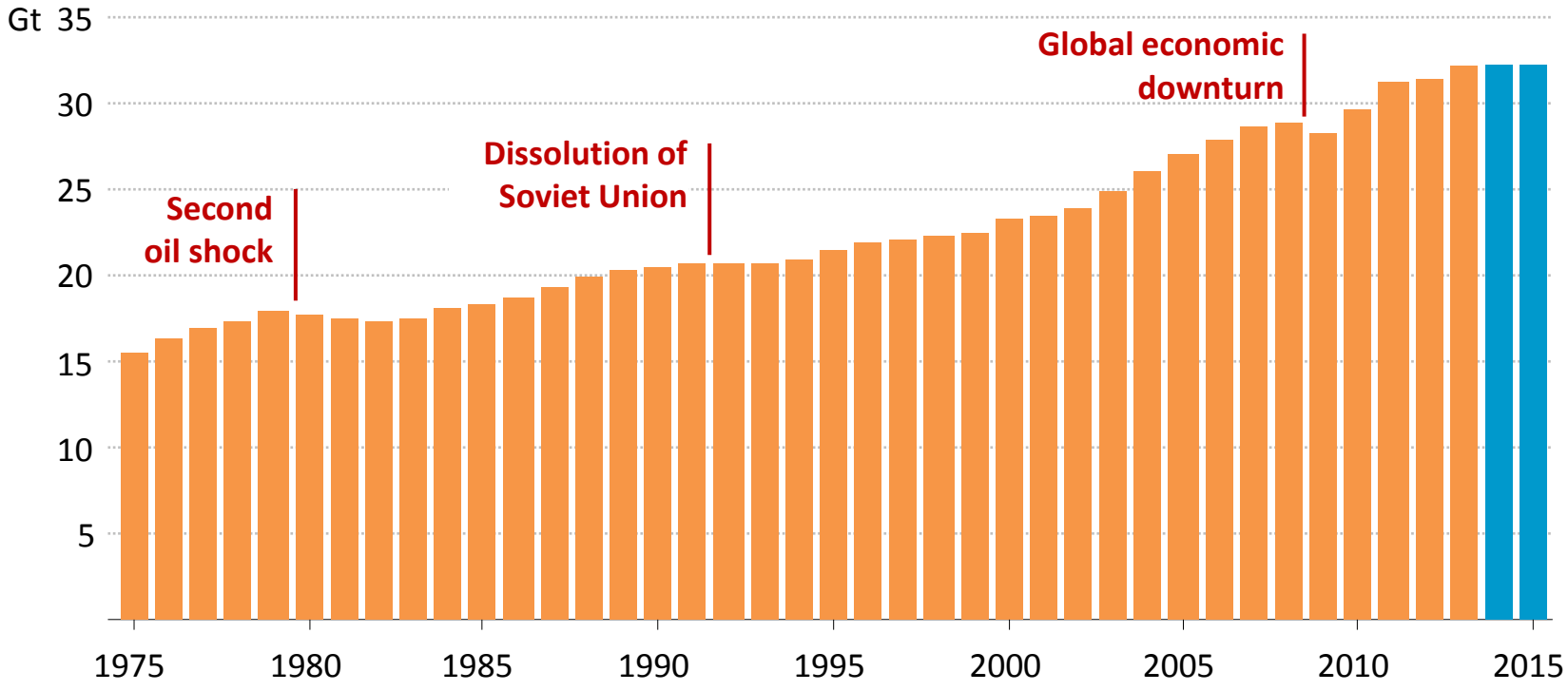
Global energy-related CO_2 emissions



IEA analysis shows renewables, led by wind, and improvements in energy efficiency were key to keeping emissions flat for a second year in a row

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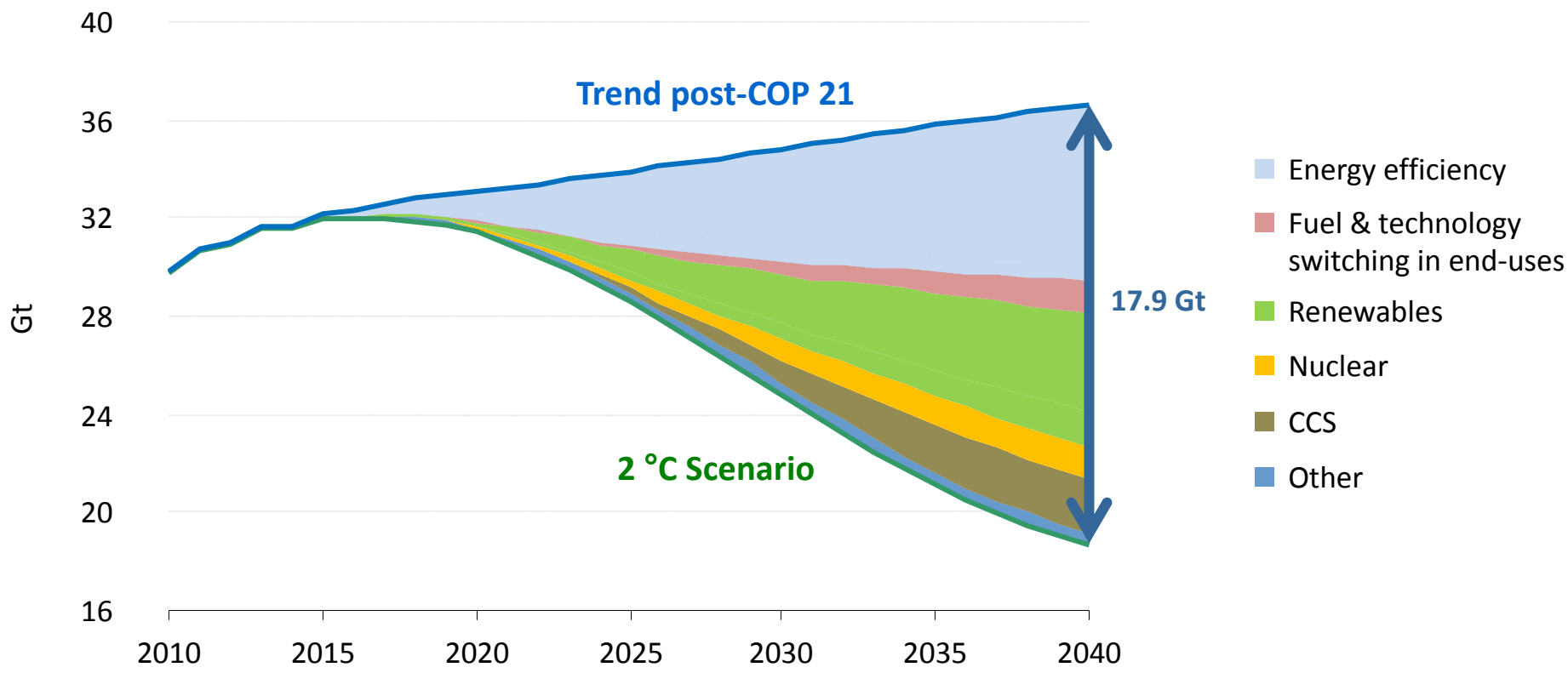
Greater efforts are still needed to reach a 2 °C pathway



Energy efficiency & renewables account for the bulk of the additional emission reductions required for a 2 °C pathway, but all forms of clean energies are needed

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Opportunities for renewable energy

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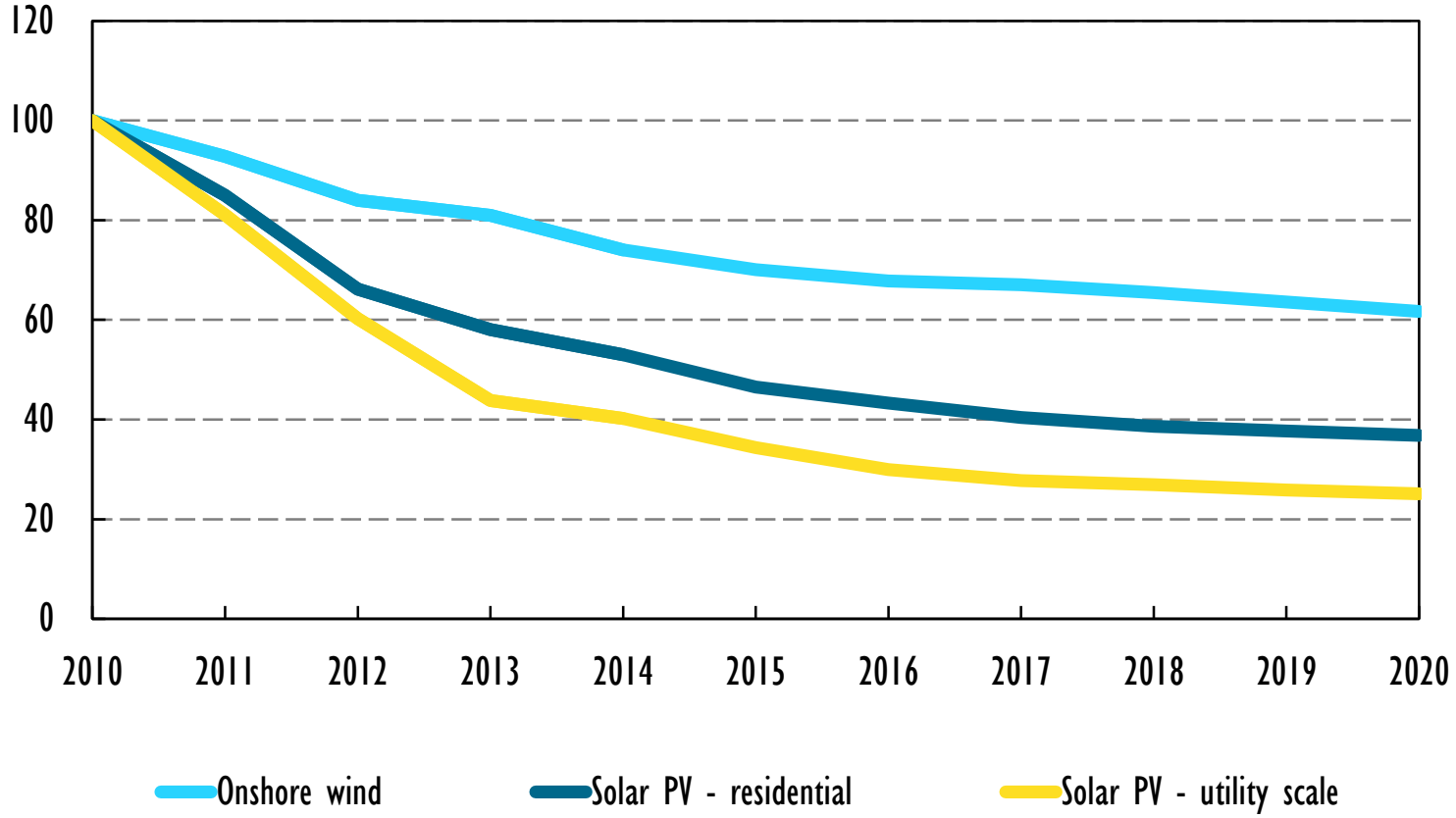
Global indexed generation costs for renewables (2010=100)



Renewable energy deployment is growing very strongly in the EU and this trend is set to continue, as global costs are coming down fast

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Europe's priorities in moving to a sustainable energy future

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- COP-21 was an historic milestone that will catalyze energy sector innovation
  - *EU now needs to focus on implementing 2030 Framework for climate and energy*
- New EU RES policies for 2030 need to take into account falling cost of renewables, low EU carbon prices and grid integration issues
- Energy efficiency policies should have a strong focus on transport, buildings and industry
  - *Do not allow current period of low fossil-fuel prices to undermine progress*
- With looming energy security & environmental challenges, international cooperation is more vital than ever

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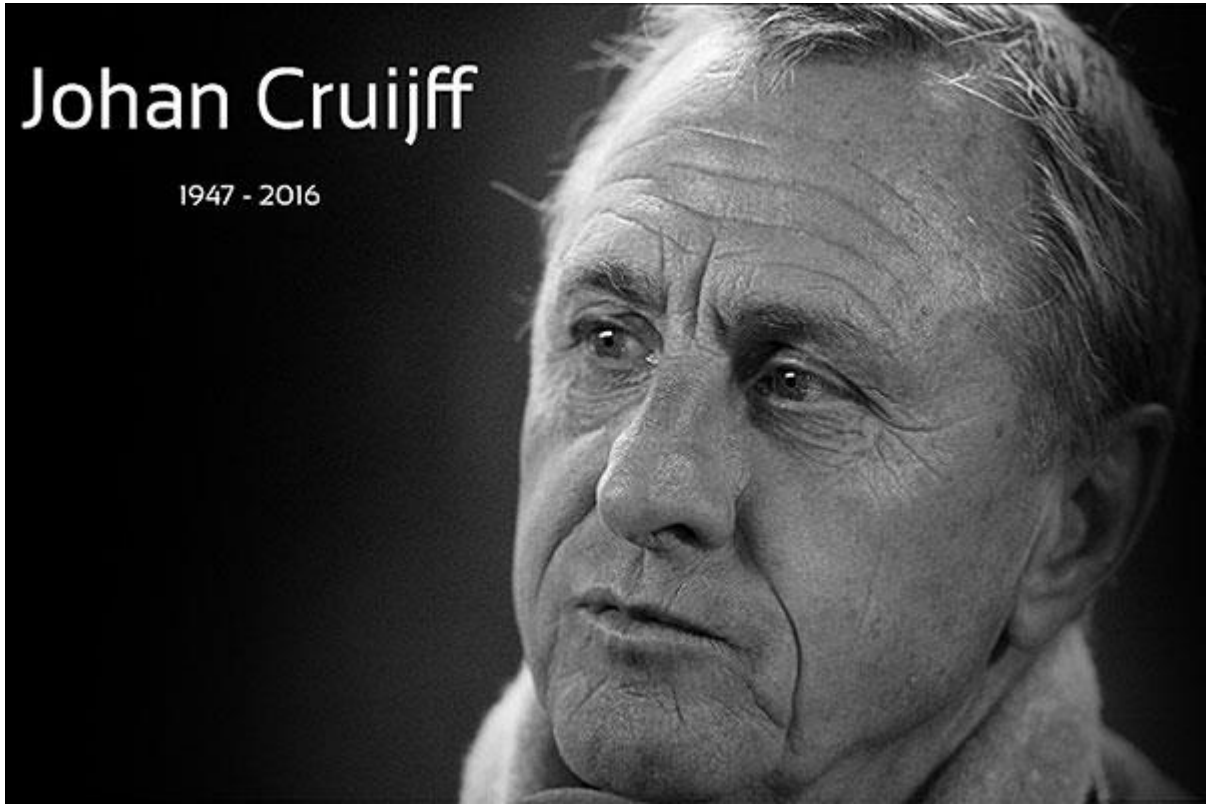
Bedankt Johan Cruijff!



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