

IS THE WORLD READY FOR CARBON CAPTURE AND STORAGE?

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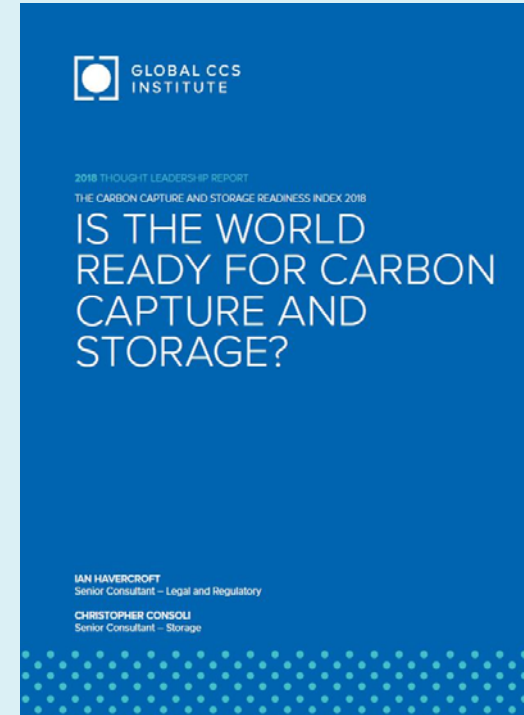
Senior Consultant



GLOBAL CCS
INSTITUTE

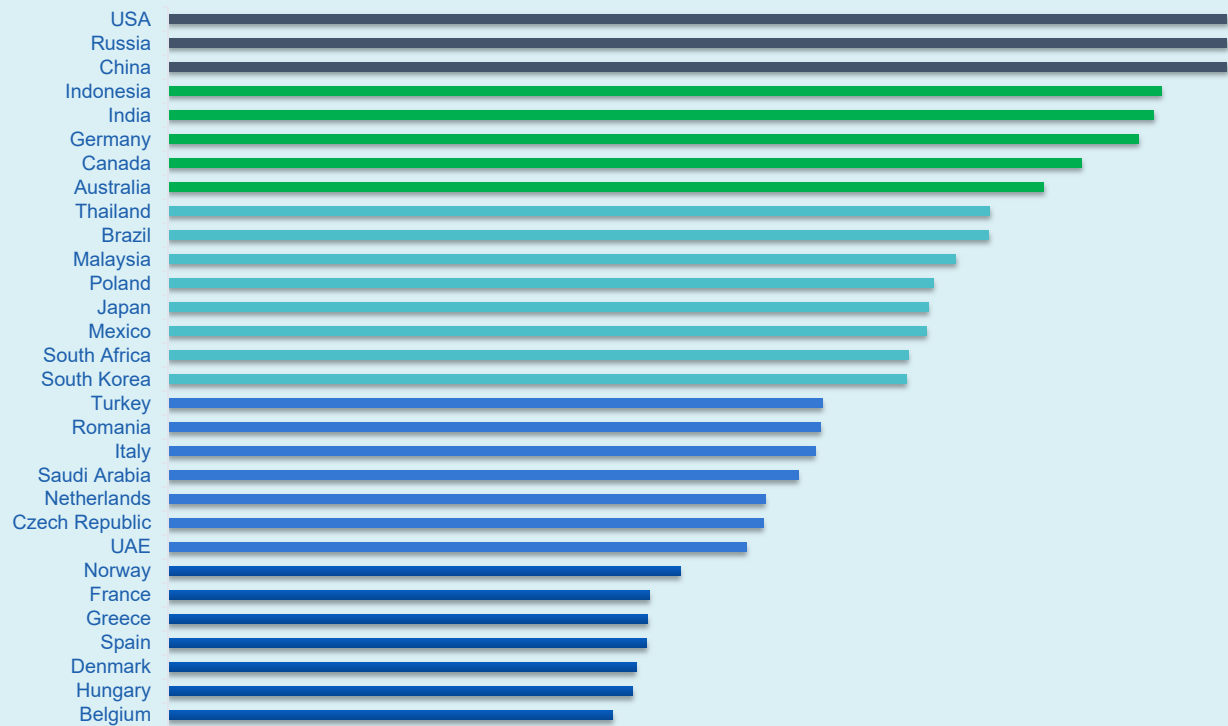
CCS READINESS INDEX

- Established in 2015
- Ranks over 50 countries:
 - Attractiveness for investment and deployment
 - Identifies leaders, fast followers
- Comprises four indicators:
 - Storage
 - Policy
 - Legal
 - Inherent CCS Interest

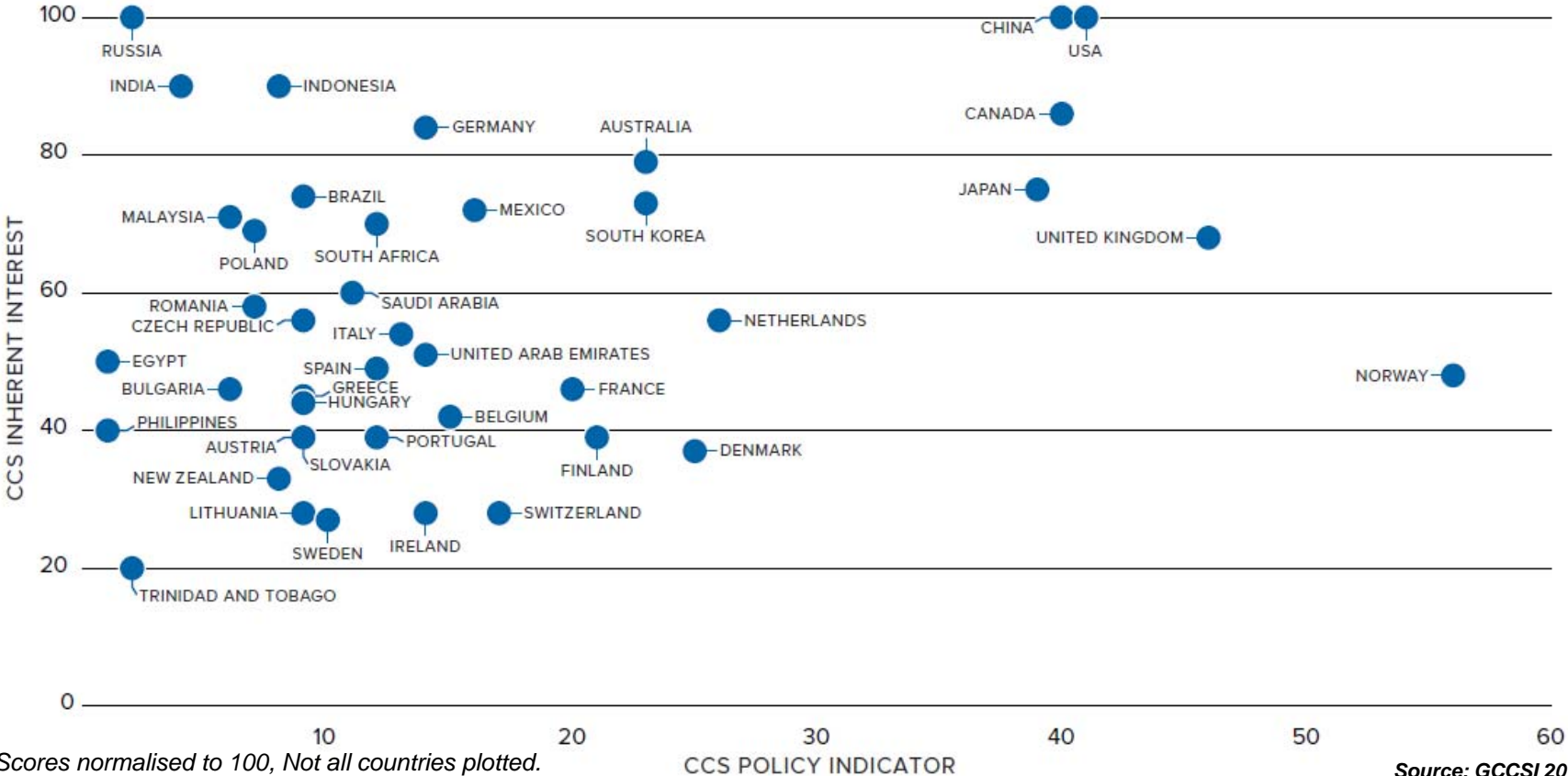


INHERENT CCS INTEREST

- Global share of fossil fuels
- Inherent to:
 - Emissions
 - Fossil fuel intensive industry
 - Fossil fuel exports

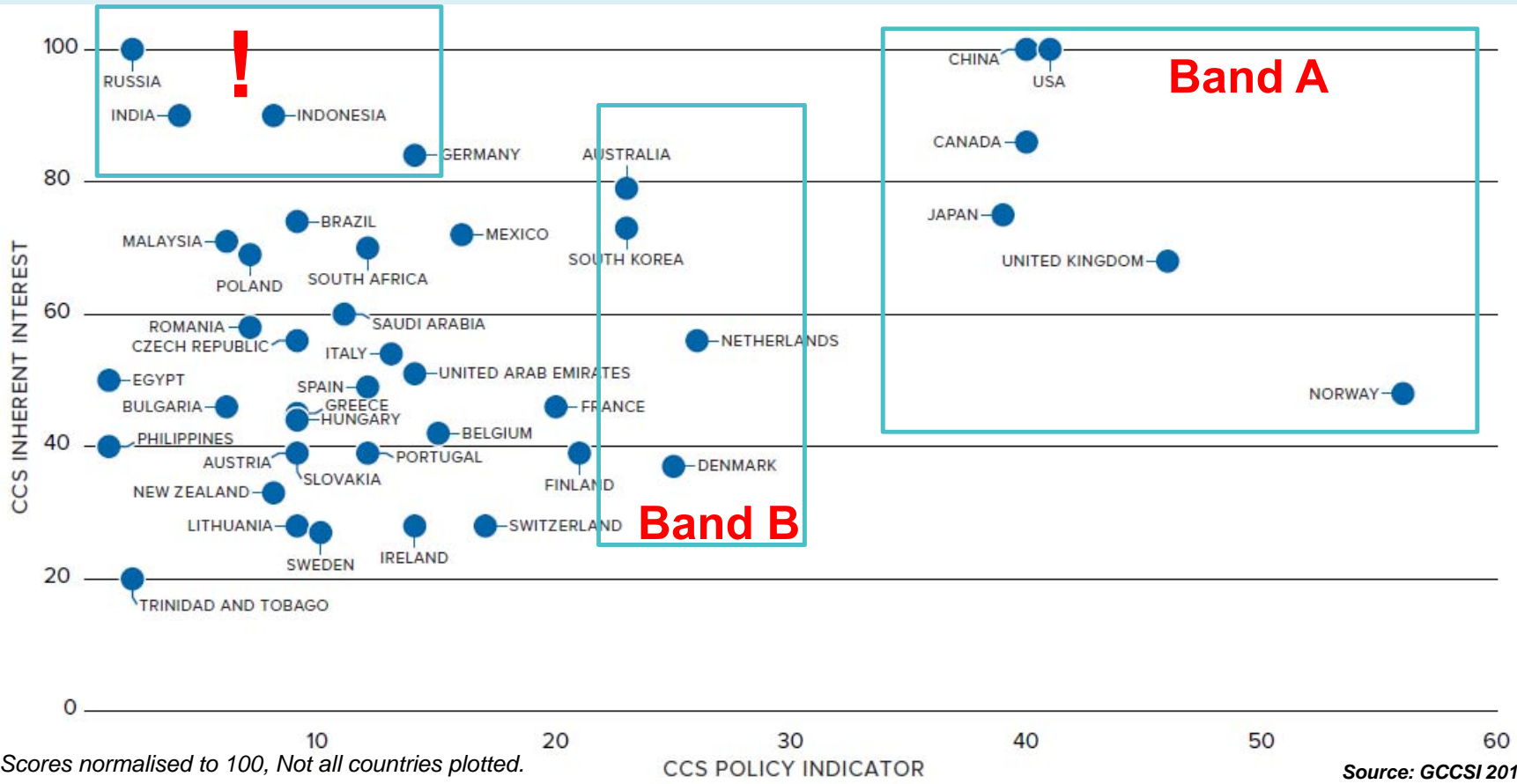


CCS POLICY INDICATOR (CCS PI)

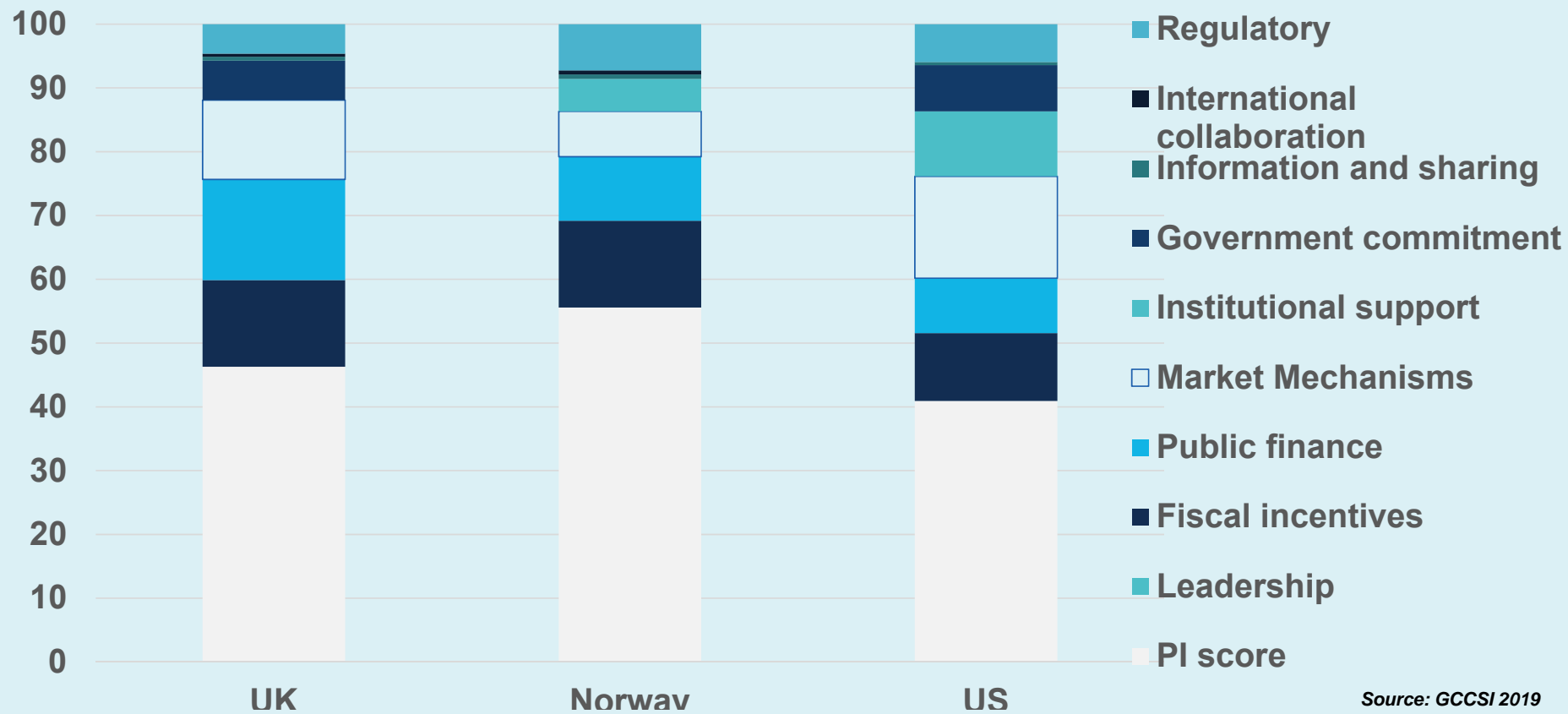


Source: GCCSI 2018

CCS POLICY INDICATOR (CCS PI)



CCS POLICY INDICATOR (2019)

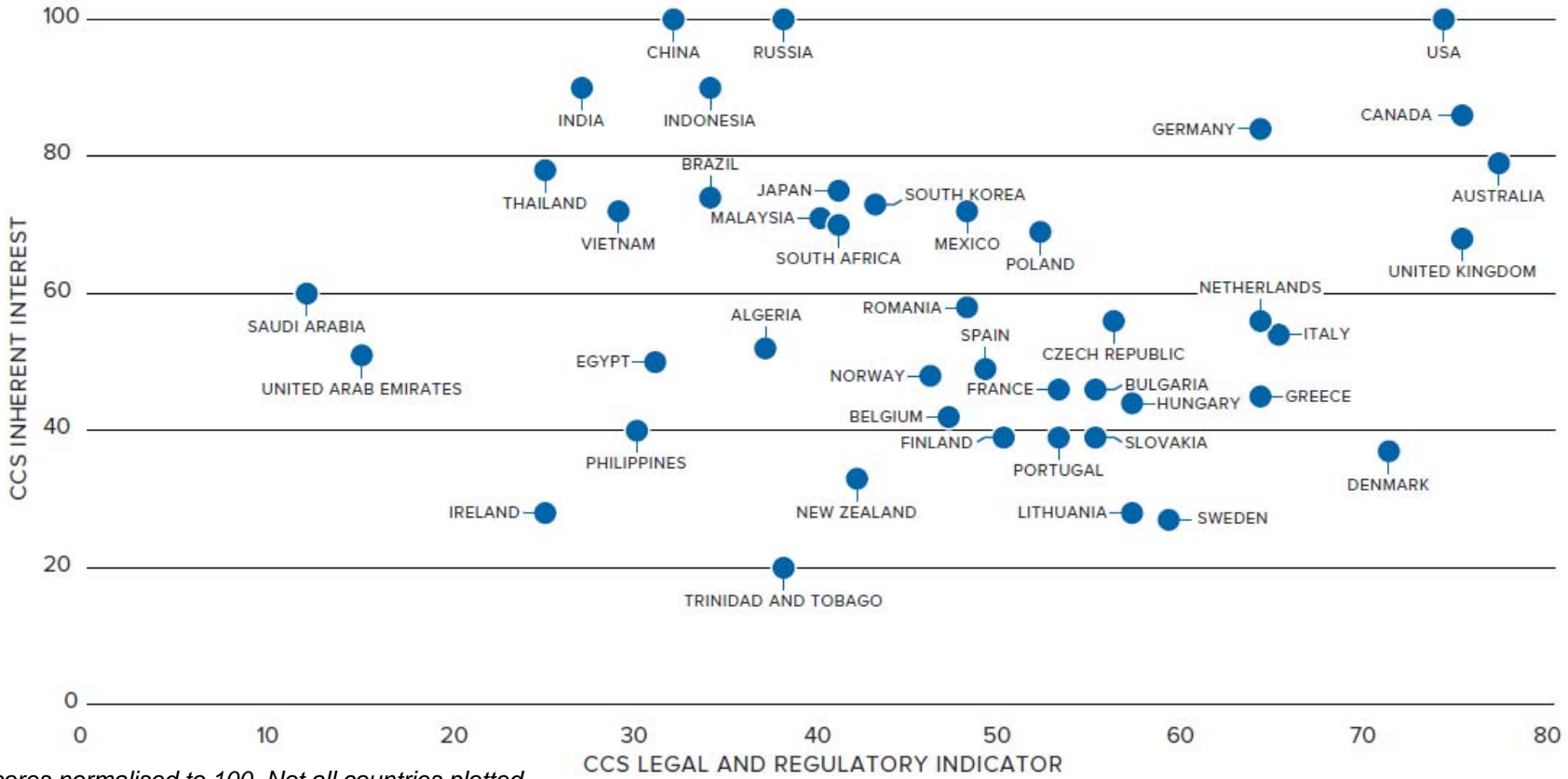


Source: GCCSI 2019



Comparing maximum potential score, to actual score

CCS LEGAL & REGULATORY INDICATOR (CCS LRI)

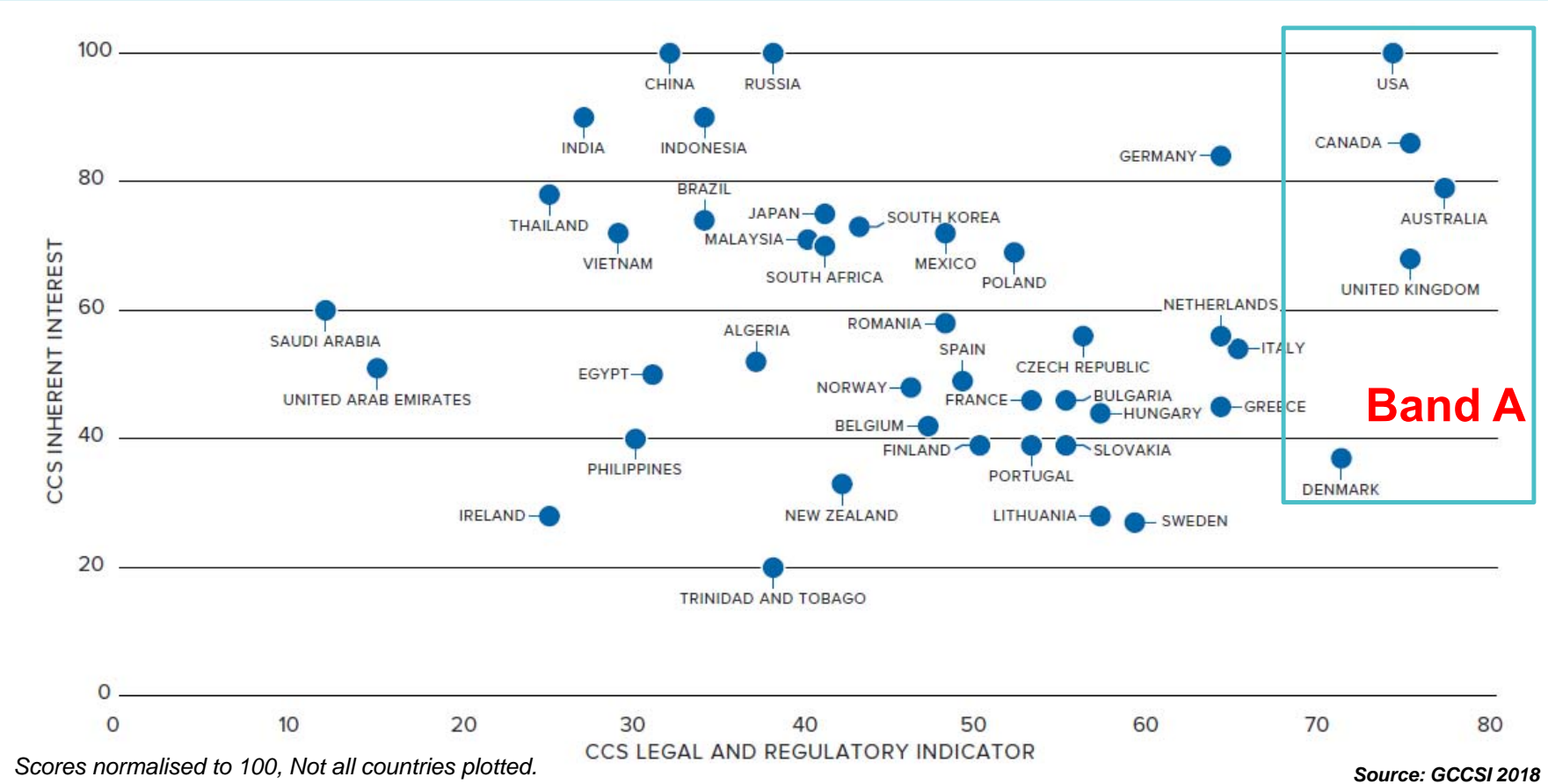


Scores normalised to 100, Not all countries plotted.

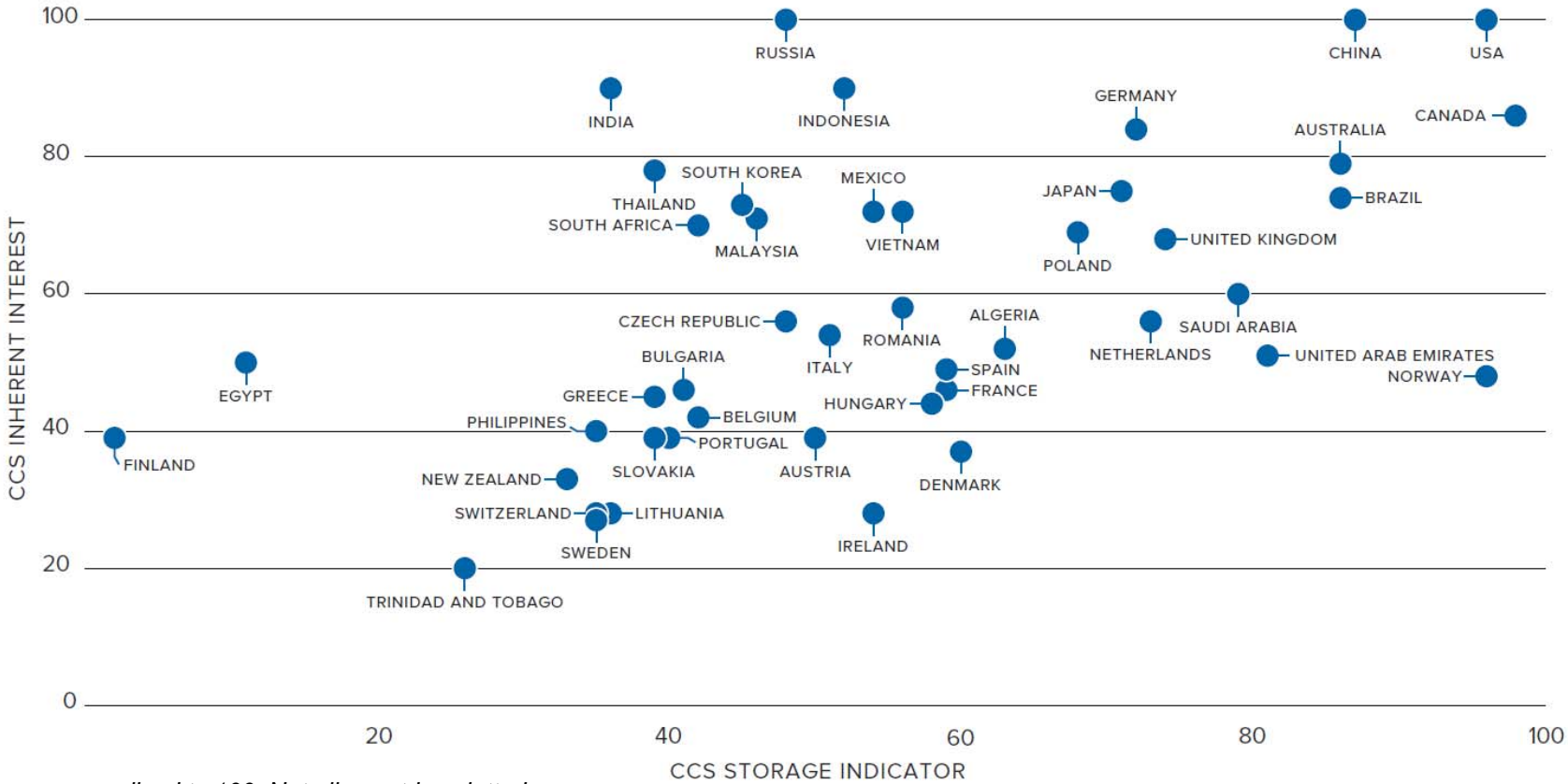
Source: GCCSI 2018



CCS LEGAL & REGULATORY INDICATOR (CCS LRI)



GLOBAL CCS INSTITUTE STORAGE INDICATOR

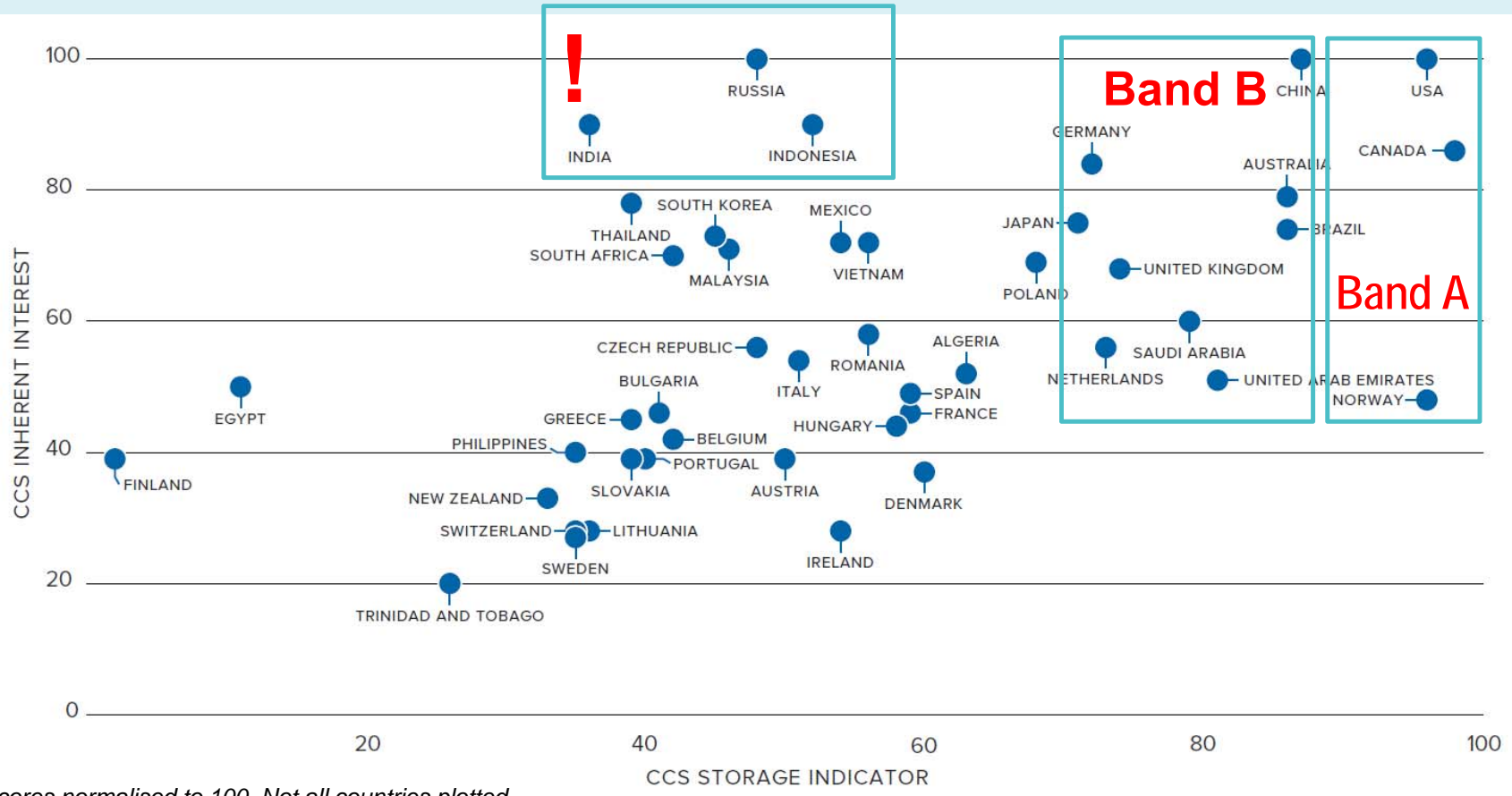


Scores normalised to 100, Not all countries plotted.

Source: GCCSI 2018



GLOBAL CCS INSTITUTE STORAGE INDICATOR

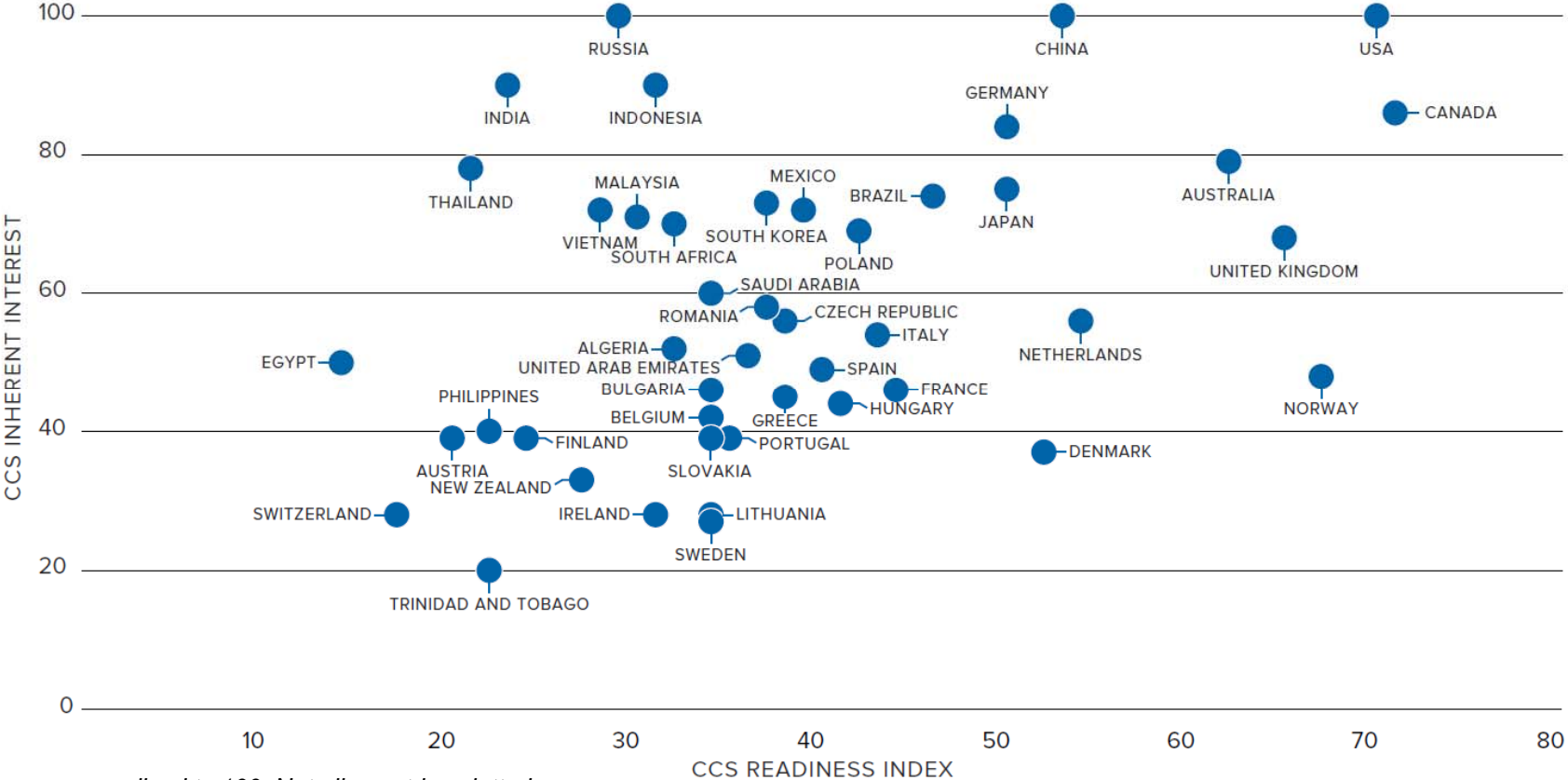


Scores normalised to 100, Not all countries plotted.

Source: GCCSI 2018



CCS READINESS INDEX (CCS RI)

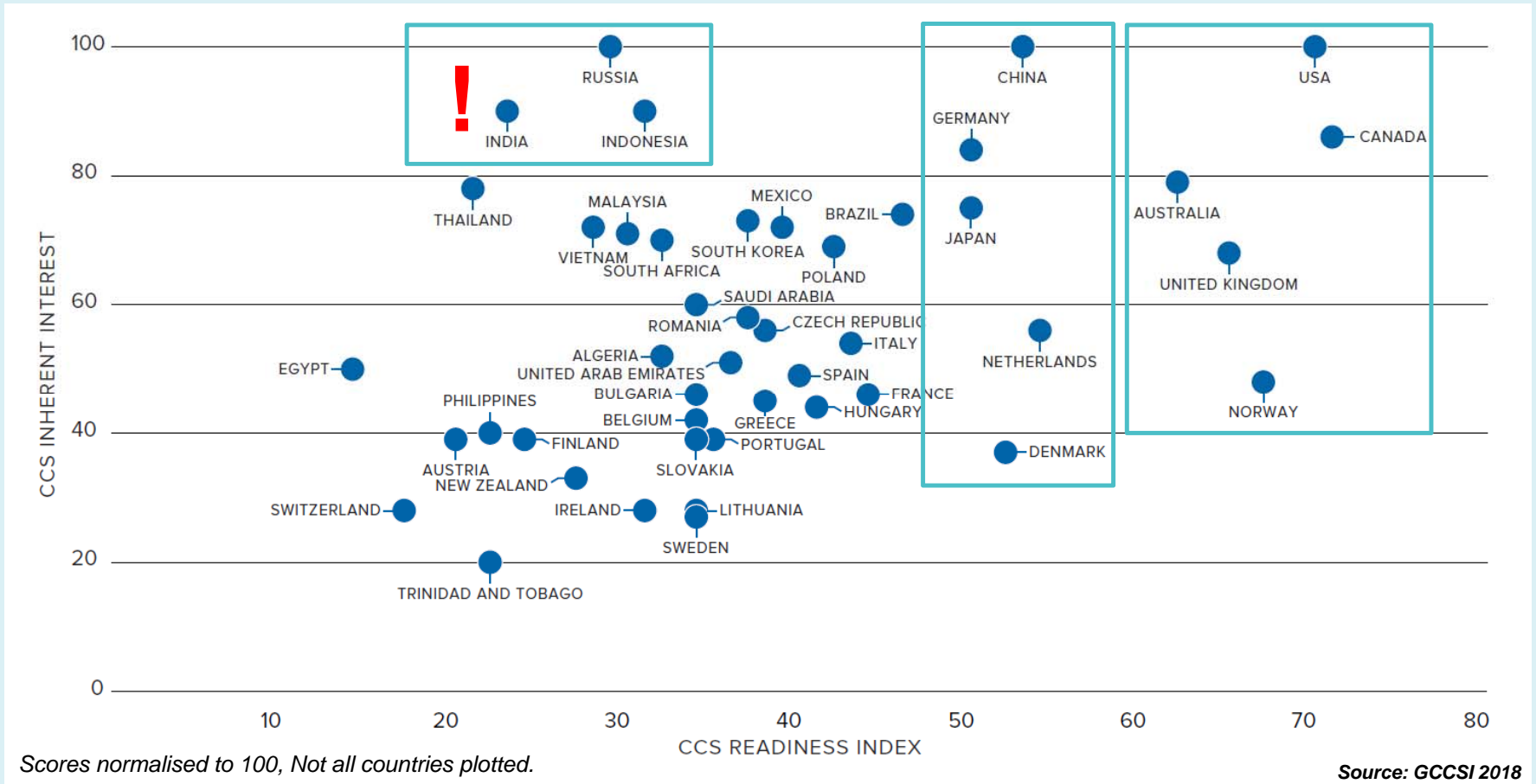


Scores normalised to 100, Not all countries plotted.

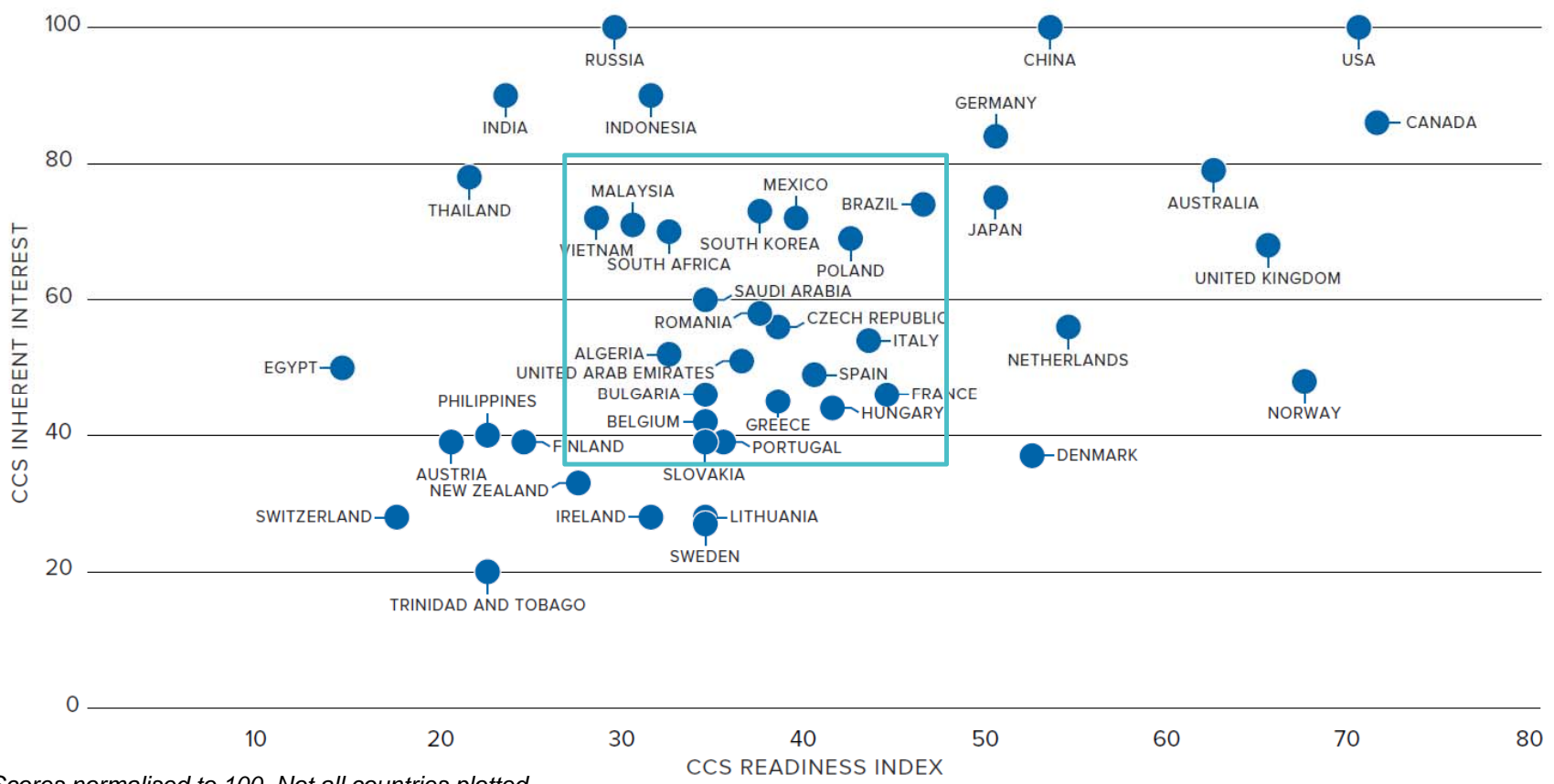
Source: GCCSI 2018



CCS READINESS INDEX (CCS RI)



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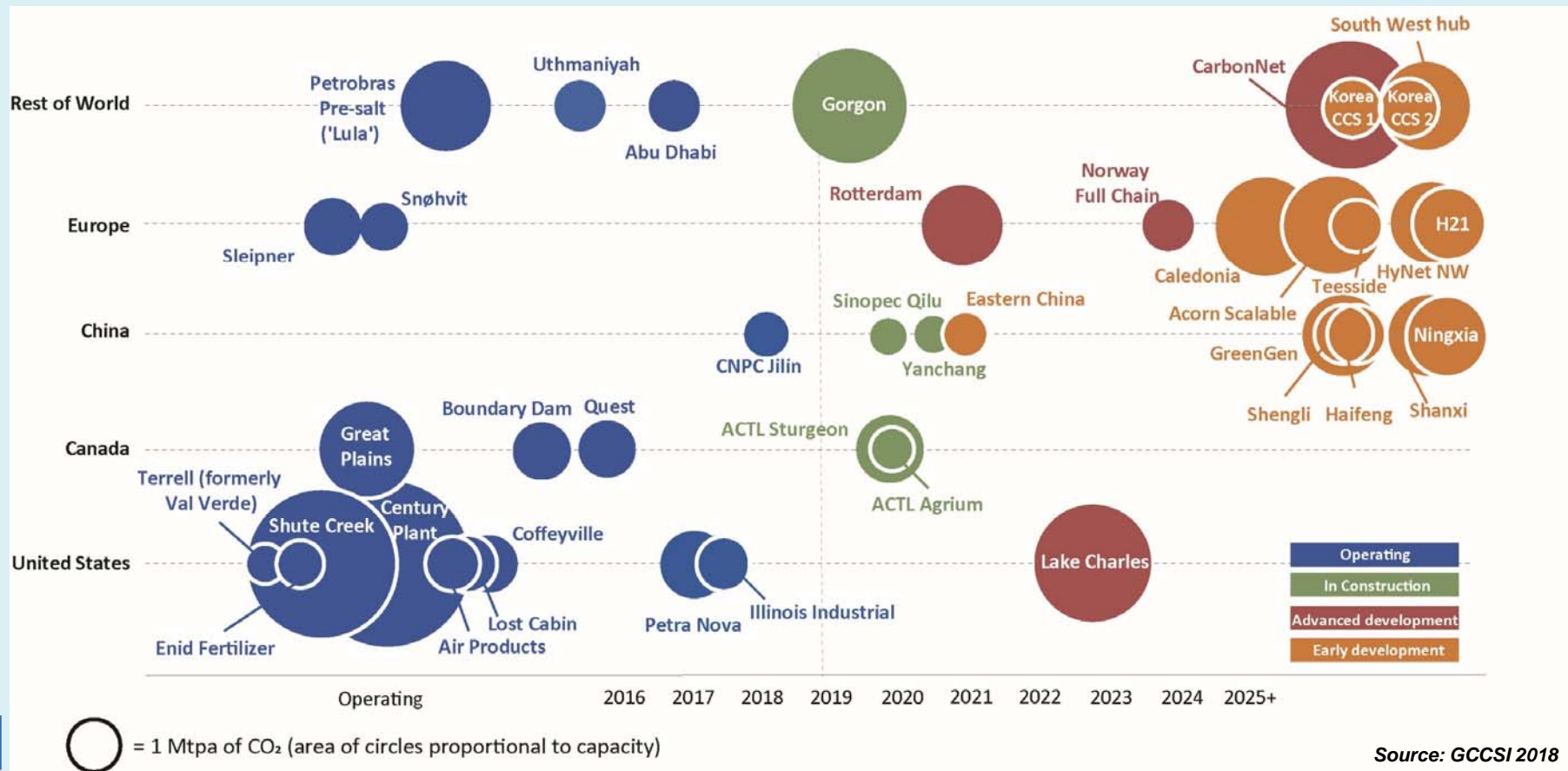


Scores normalised to 100, Not all countries plotted.

Source: GCCSI 2018

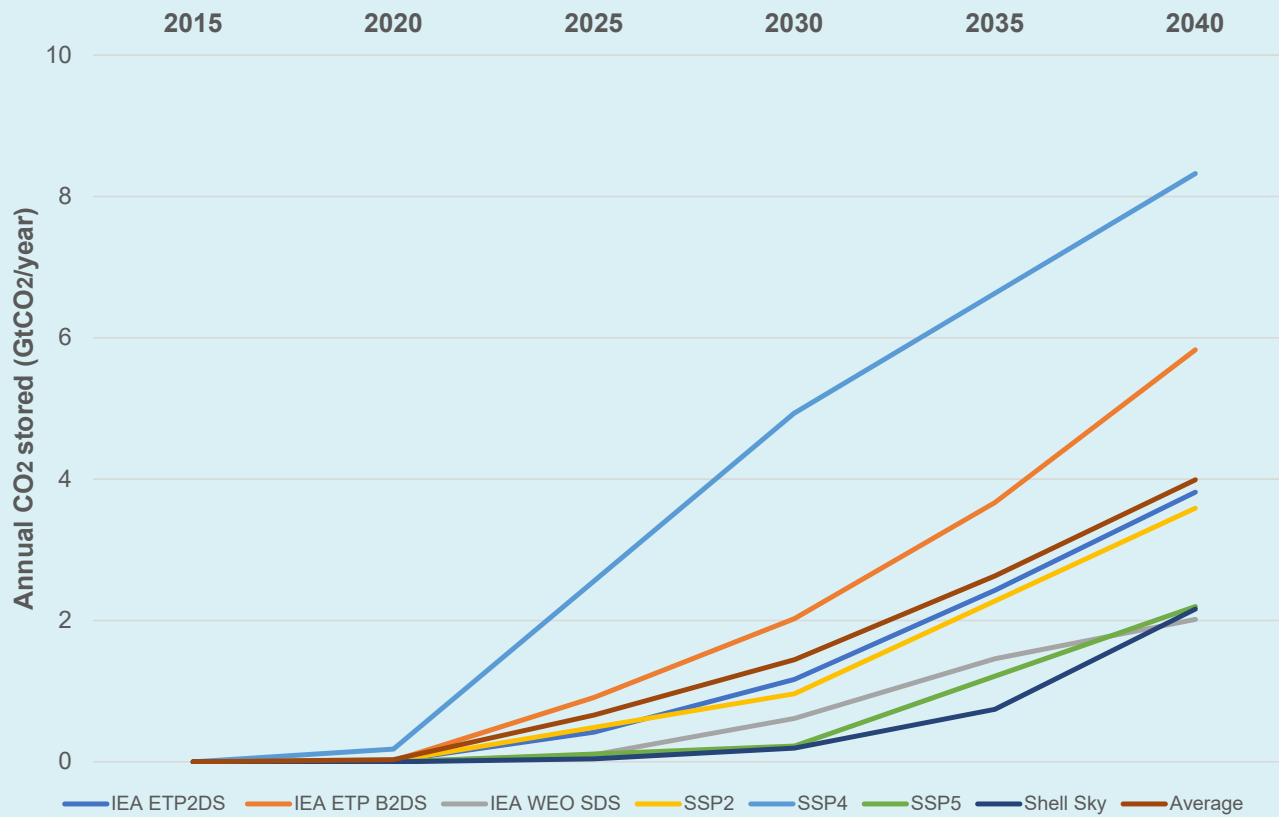


DOES HISTORICAL DEPLOYMENT REFLECT FUTURE DEPLOYMENT?



Source: GCCSI 2018

DRIVER FOR INVESTMENT IN CCS – THE NEXT 20 YEARS



CCS plays a major role in almost every scenario, pathway and carbon budget

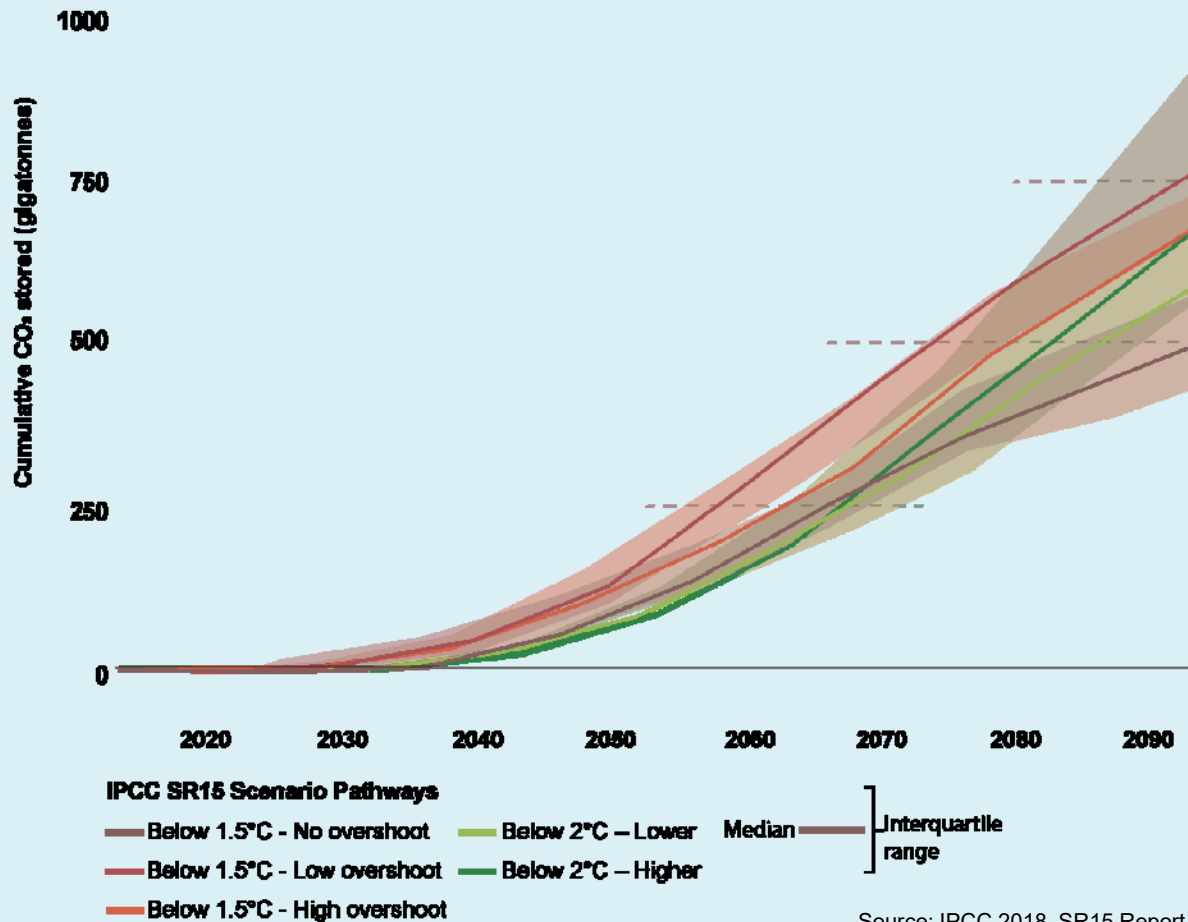
Key technology to reduce emissions

- Power
- Industry



Source: IEA 2017; 2018, Shell 2019 IPCC 2018, IAMS, 2018

CCS IN IPCC SR15 REPORT - ESSENTIAL



The median mass of CO₂ captured and stored across all pathways to 2100 is 410Gt **from electricity generation alone.**

Total abatement from CCS up to 1218Gt (illustrative pathway P4) due to heavy reliance on negative emission technologies:

- BECCS
- DACS

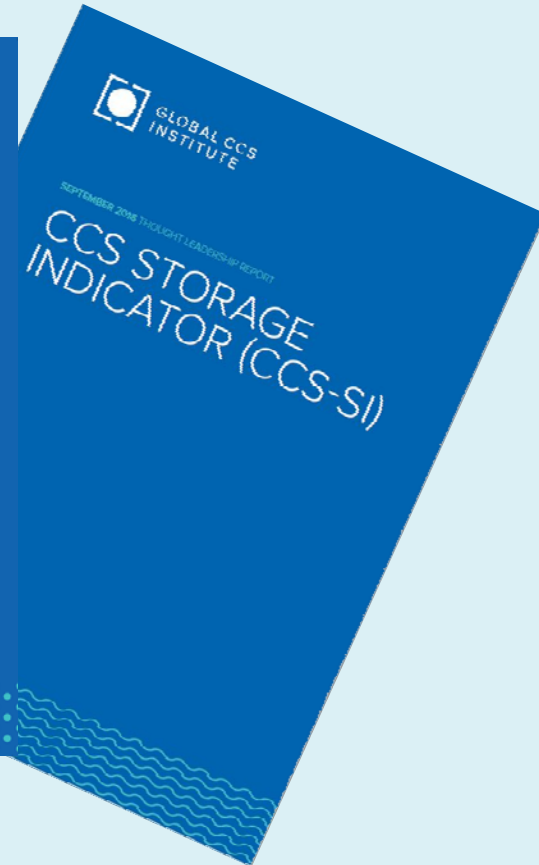
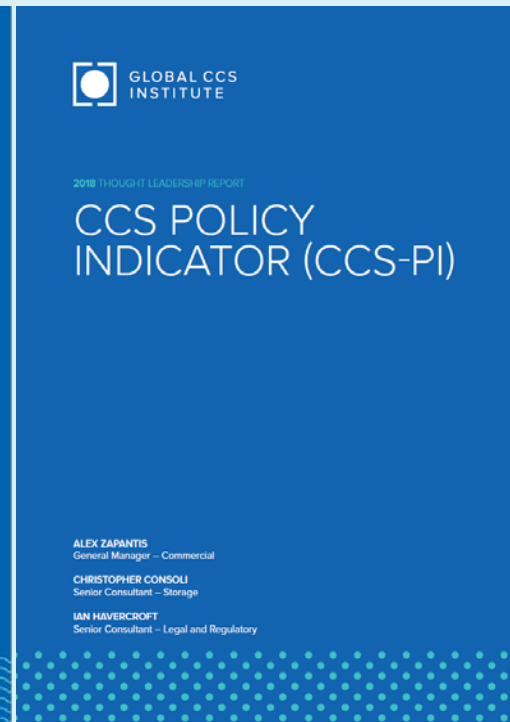
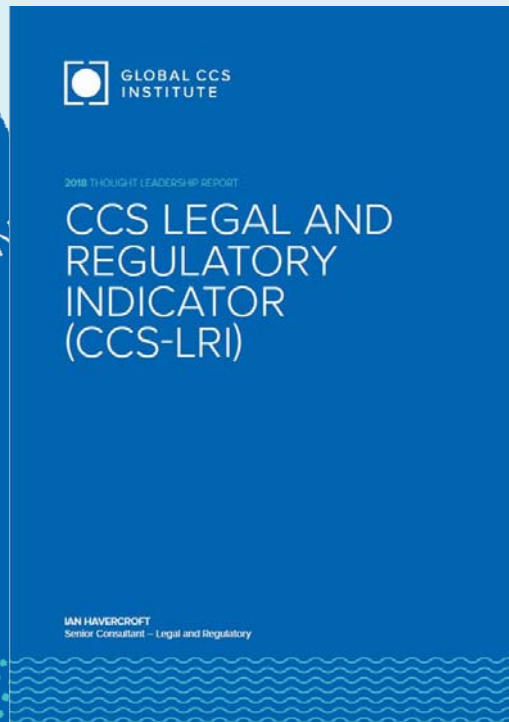
Source: IPCC 2018, SR15 Report



IS THE WORLD READY FOR CARBON CAPTURE AND STORAGE?



AVAILABLE NOW



Thankyou

