6th INCO Conference

Joint Innovation – Common Prosperity

17 June 2015, Beijing

Ensuring sustainable collaborations amidst rapidly changing regional and global dynamics

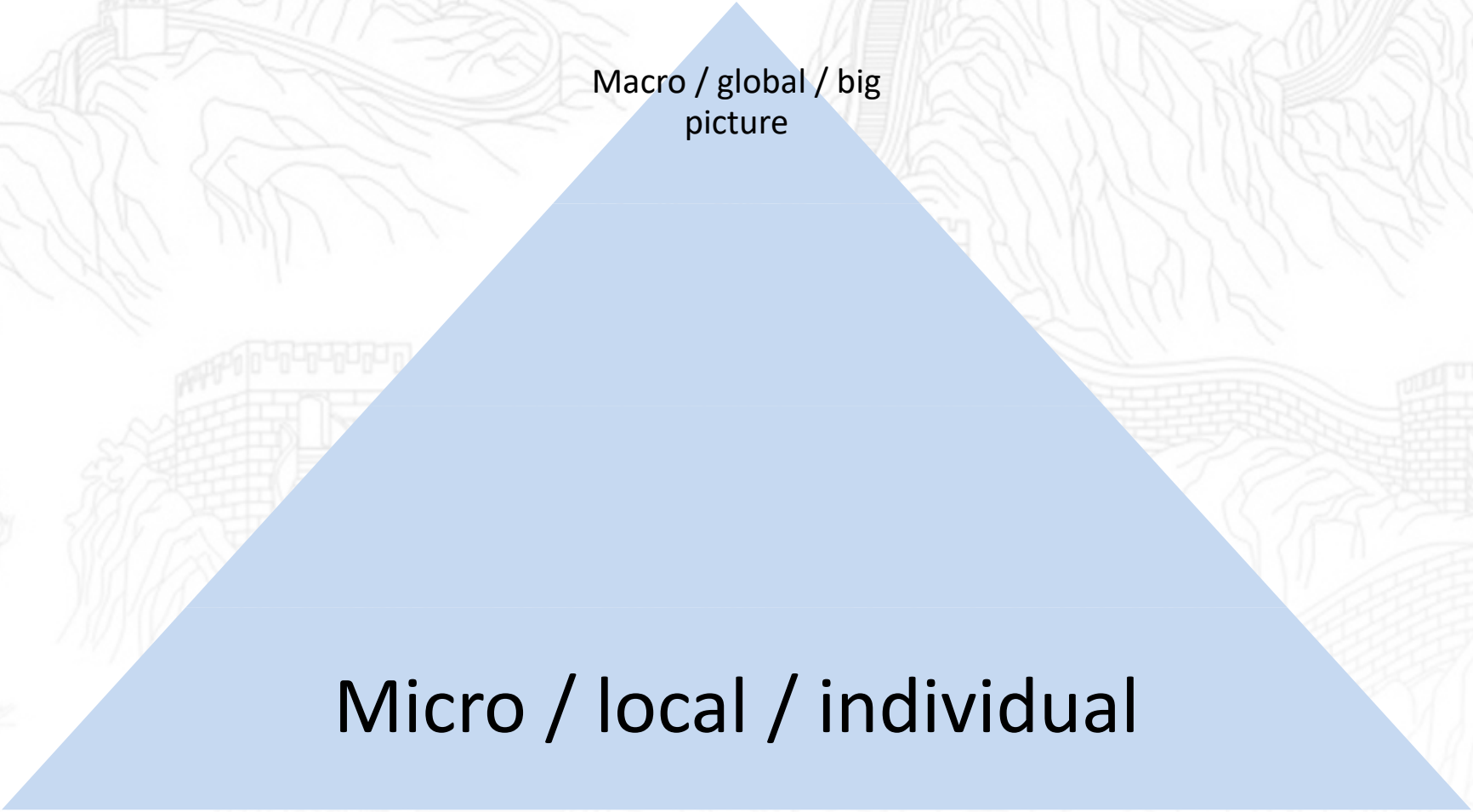
Dr Rado Faletič
Director, Projects & Communications
Montroix Pty Ltd

“Planning” perspective

Macro / global / big picture

Micro / local / individual

"Development" resourcing



Ensuring “sustainability”?

Macro / global / big picture

?

Micro / local / individual

Let's look at GERD

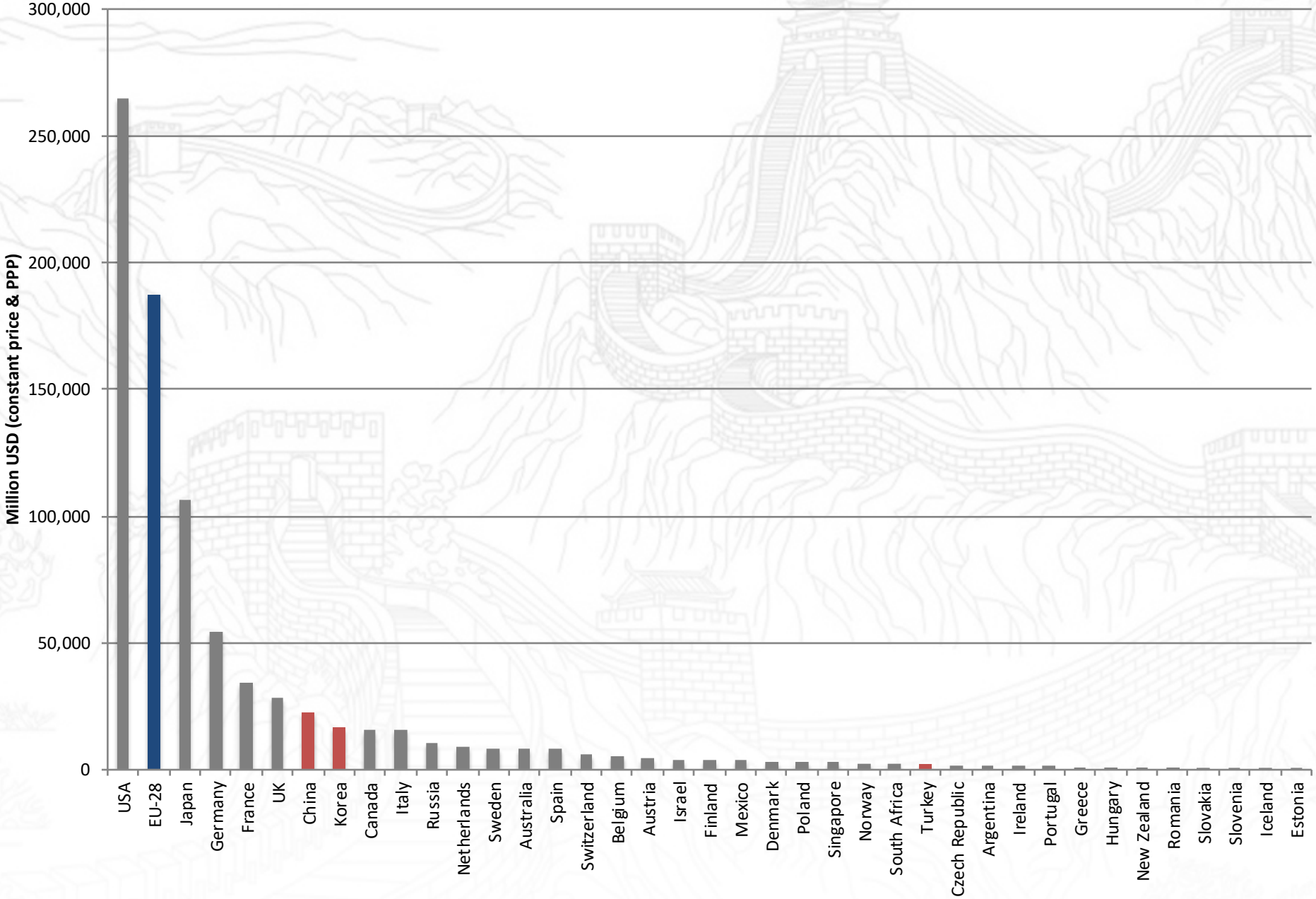
- GERD: *Gross domestic Expenditure on Research and experimental Development*

- It is the "capital flows for R&D"

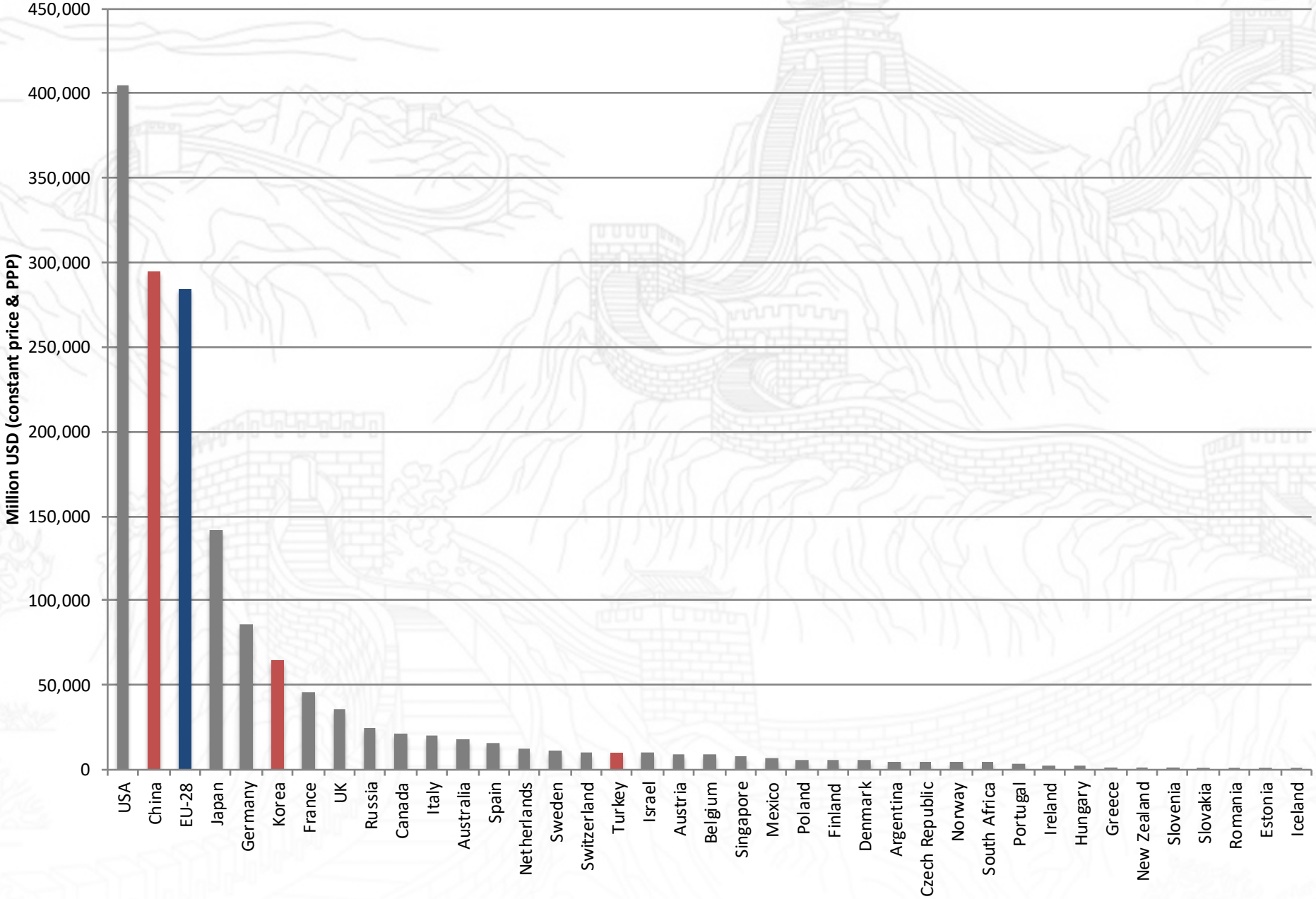
- General rule

  higher GERD/GDP = more *innovation*

GERD 1998


Million USD (constant price & PPP)
300,000
250,000
200,000
150,000
100,000
50,000
0
USA
EU-28
Japan
Germany
France
UK
China
Korea
Canada
Italy
Russia
Netherlands
Sweden
Australia
Spain
Switzerland
Belgium
Austria
Israel
Finland
Mexico
Denmark
Poland
Singapore
Norway
South Africa
Turkey
Czech Republic
Argentina
Ireland
Portugal
Greece
Hungary
New Zealand
Romania
Slovakia
Slovenia
Iceland
Estonia

GERD 2013


Million USD (constant price & PPP)
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
USA
China
EU-28
Japan
Germany
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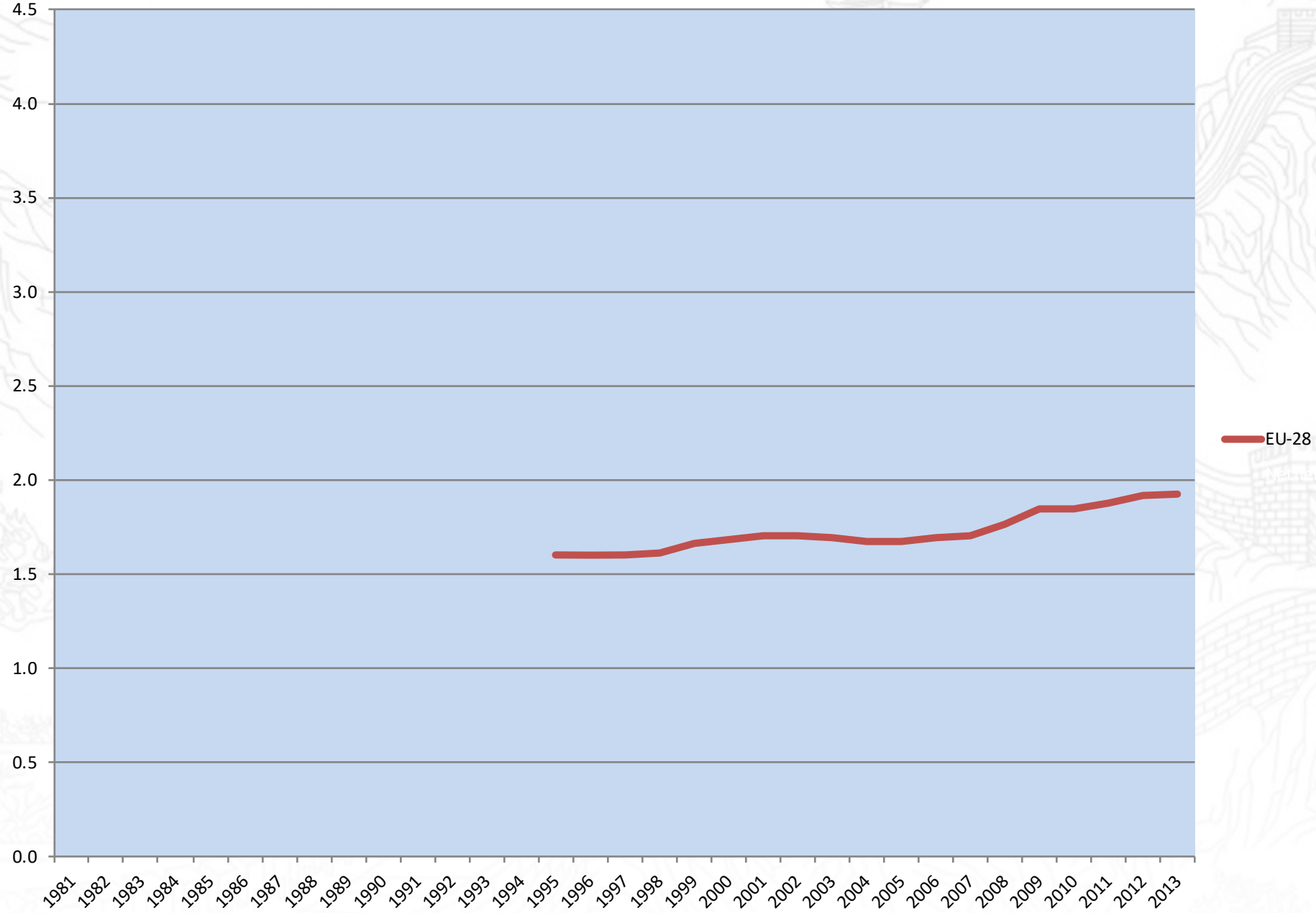
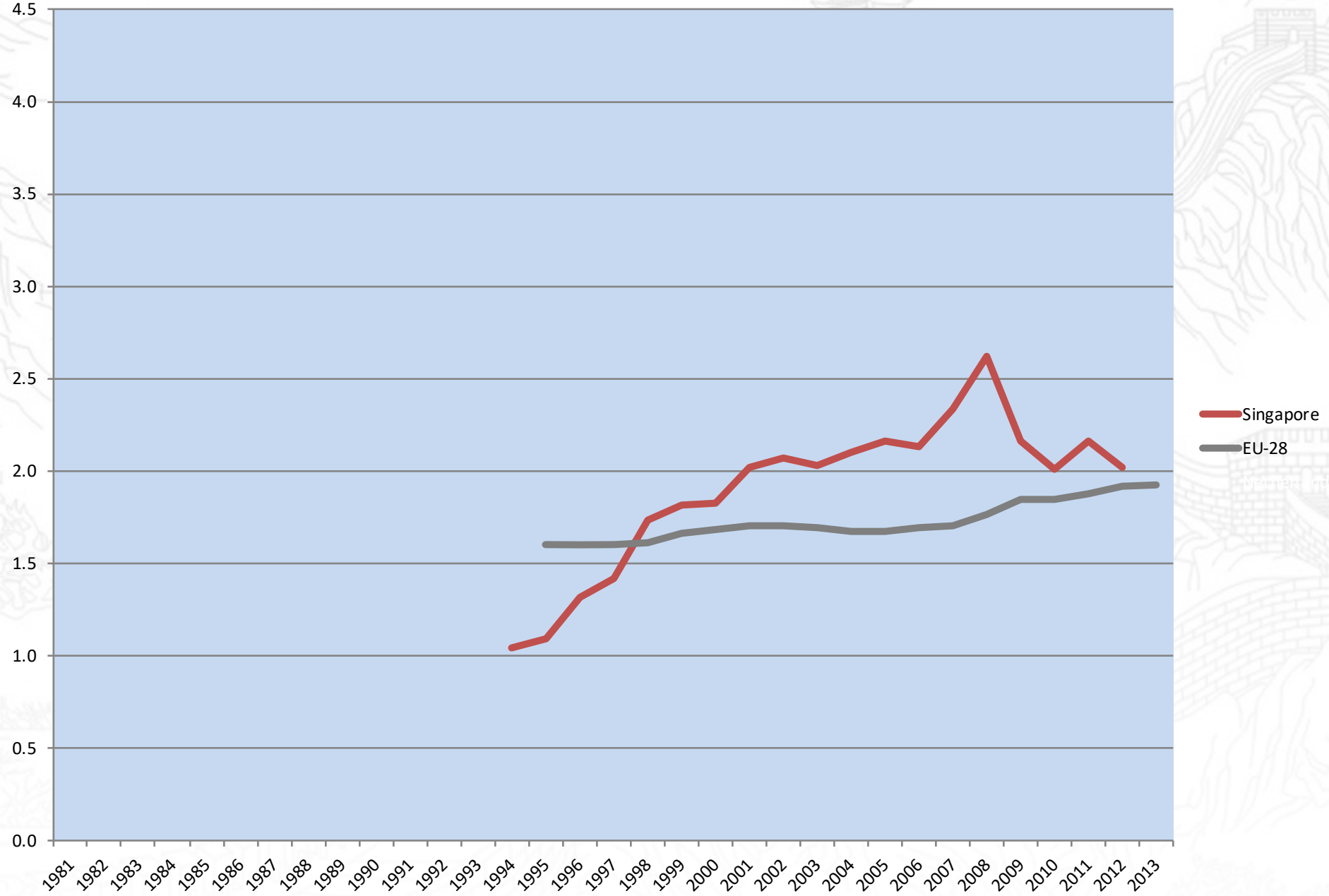
France
UK
Russia
Canada
Italy
Australia
Spain
Netherlands
Sweden
Switzerland
Turkey
Israel
Austria
Belgium
Singapore
Mexico
Poland
Finland
Denmark
Argentina
Czech Republic
Norway
South Africa
Portugal
Ireland
Hungary
Greece
New Zealand
Slovenia
Slovakia
Romania
Estonia
Iceland

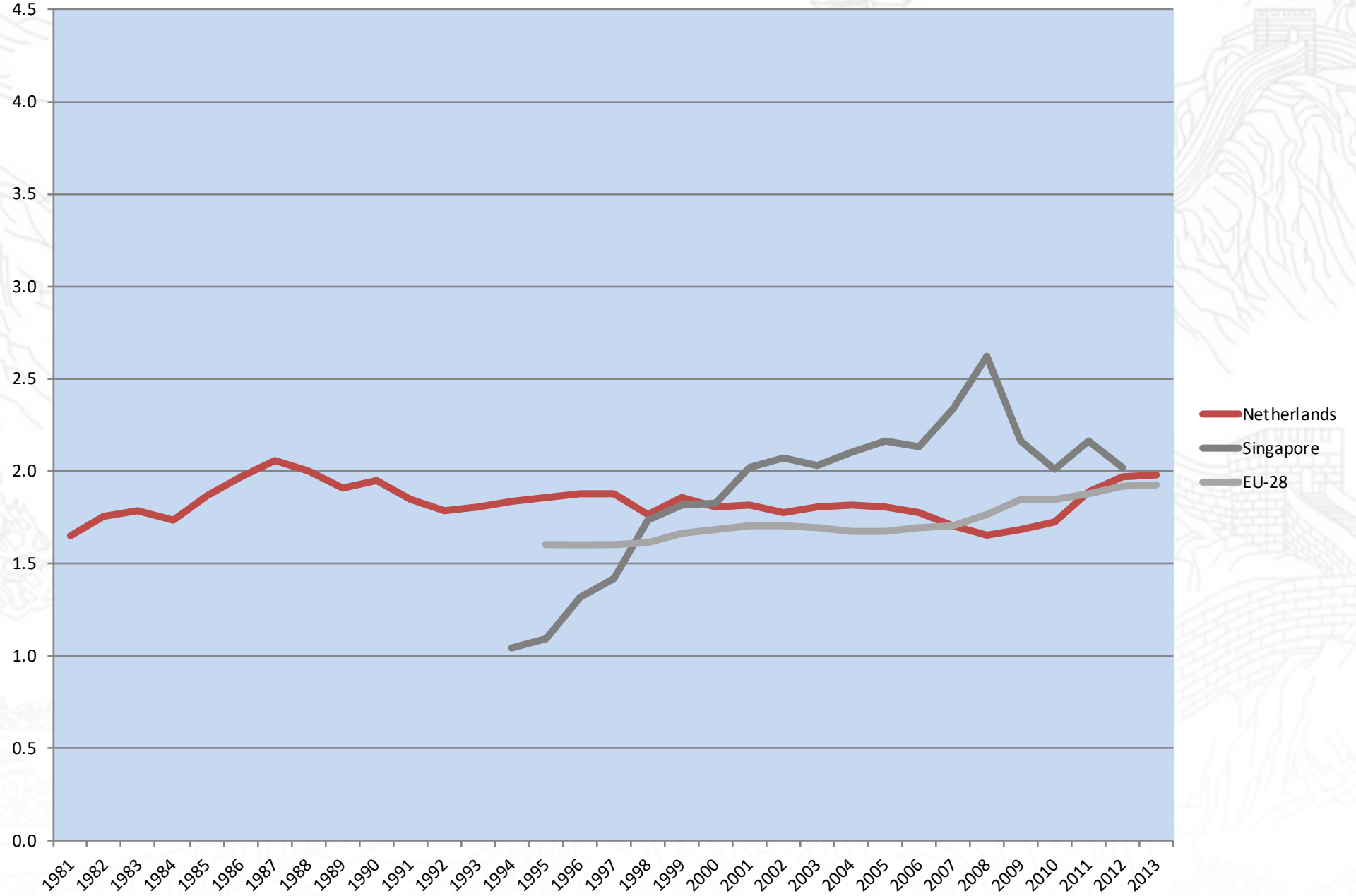
GERD as % of GDP



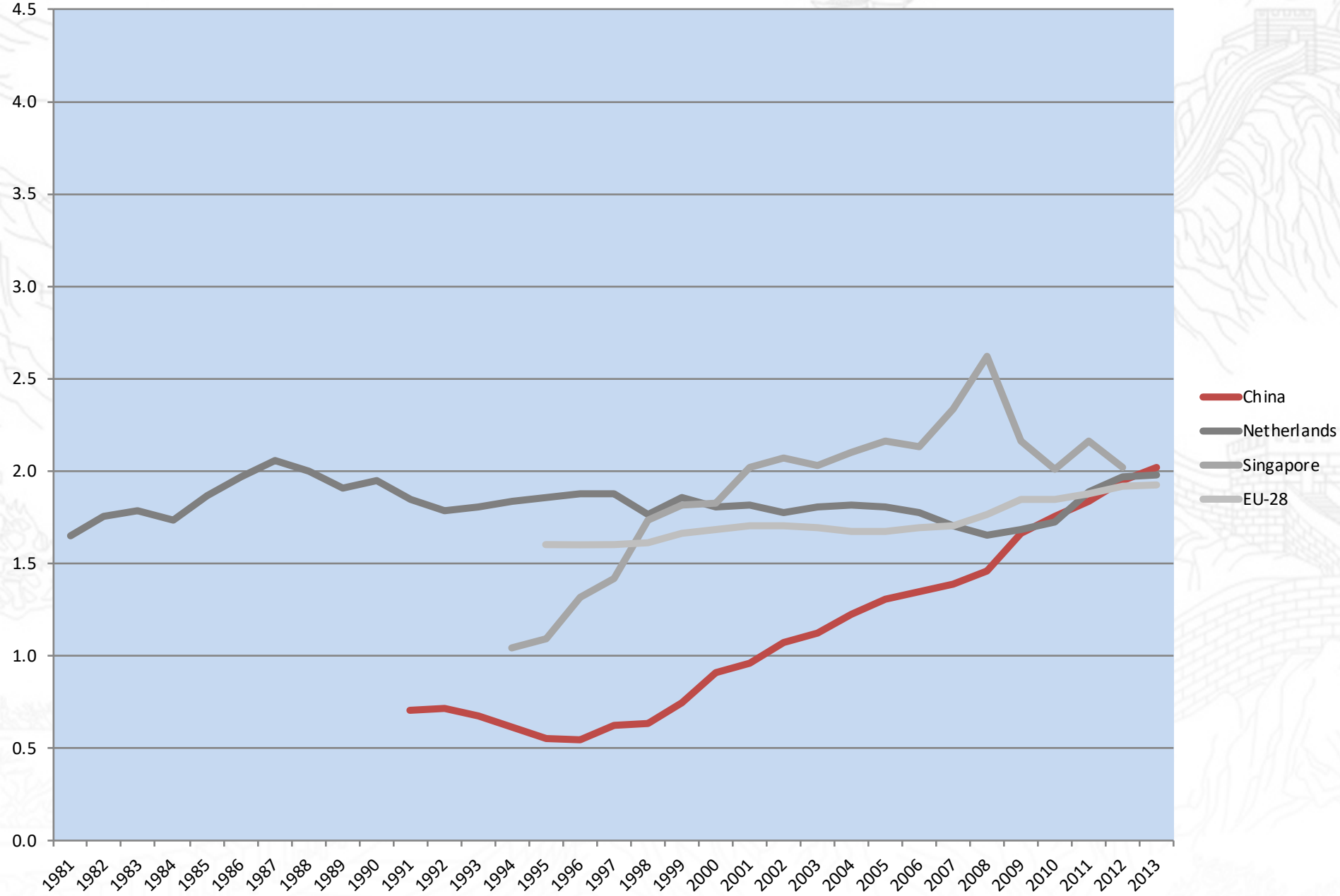
GERD as % of GDP



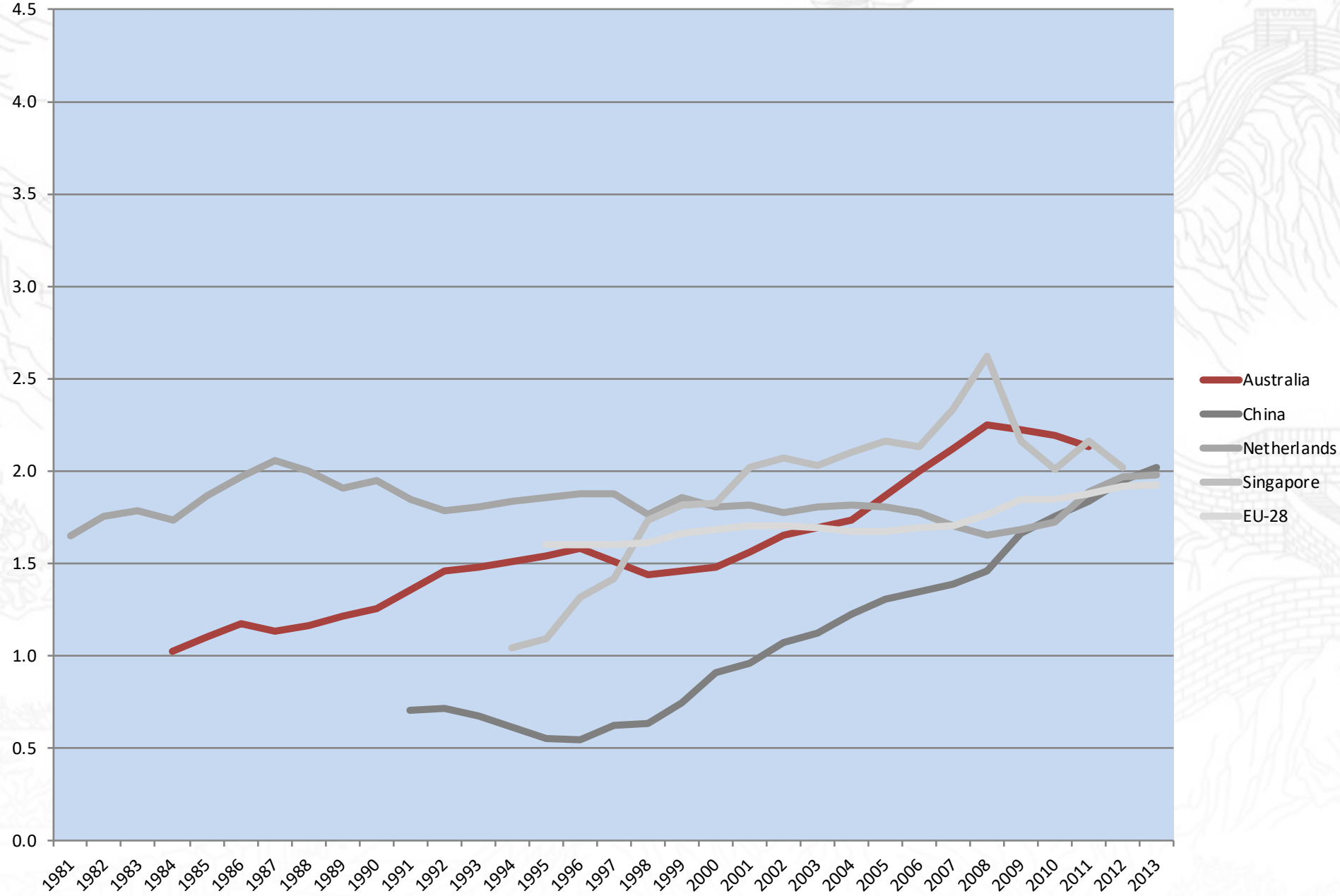
GERD as % of GDP



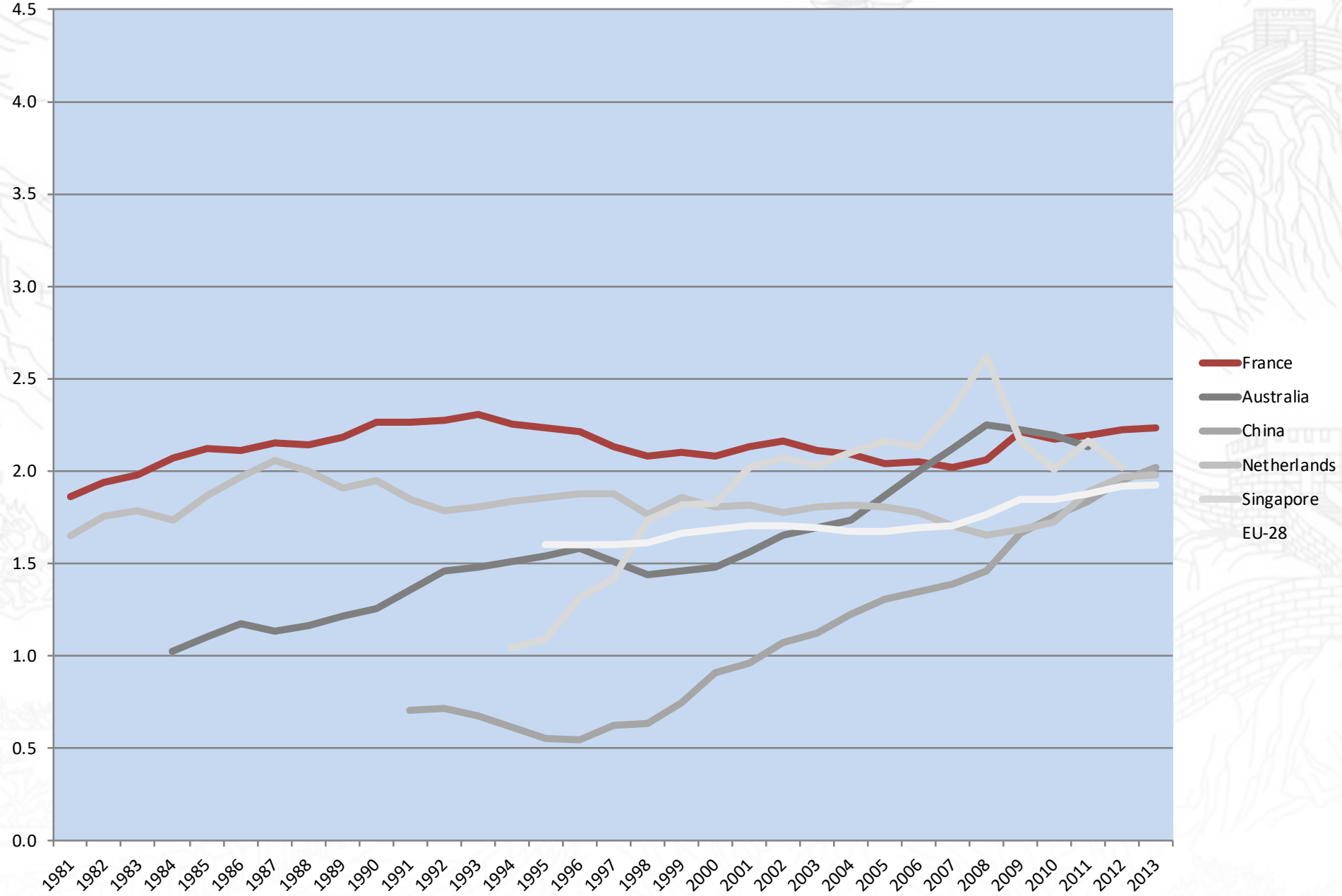
GERD as % of GDP



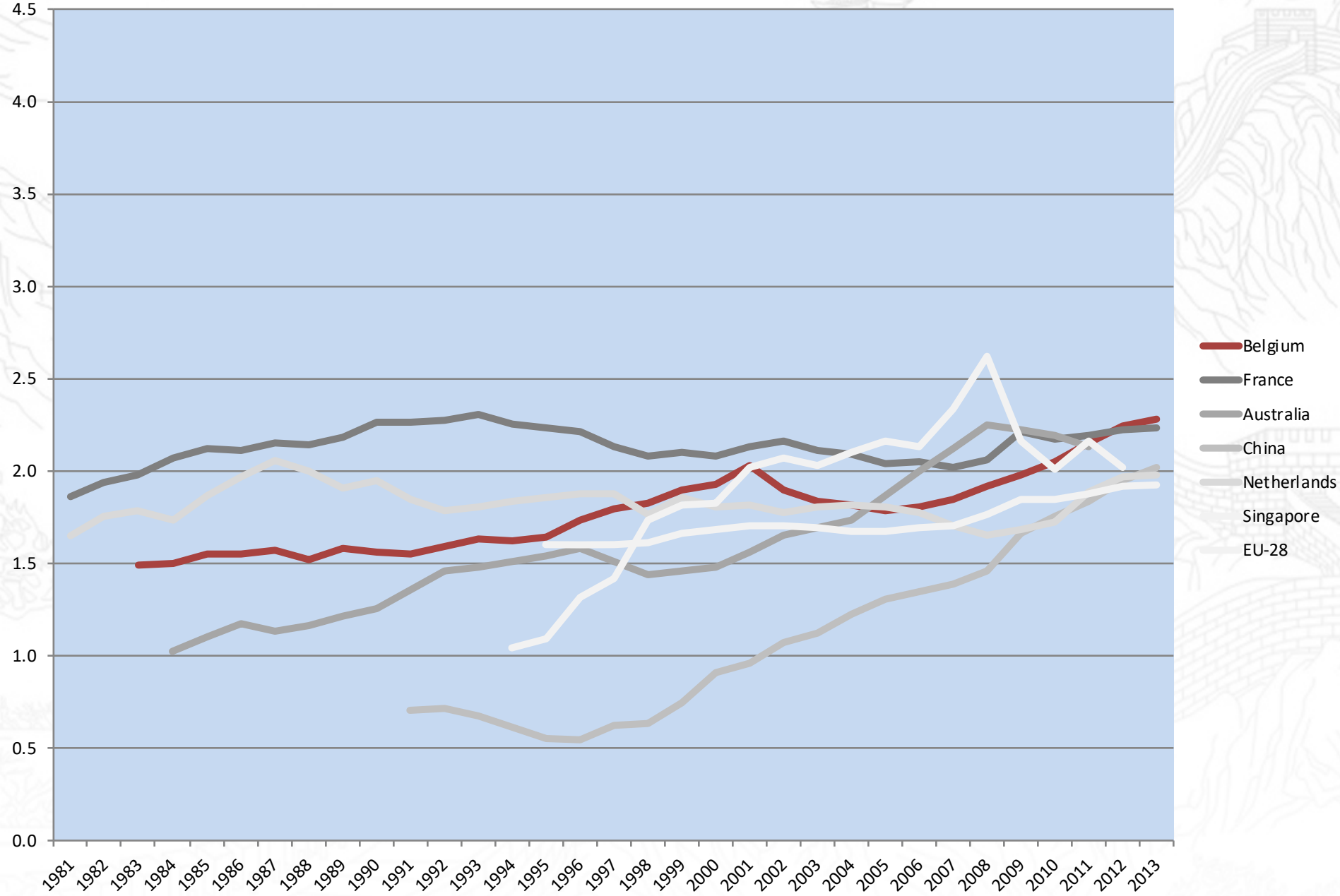
GERD as % of GDP



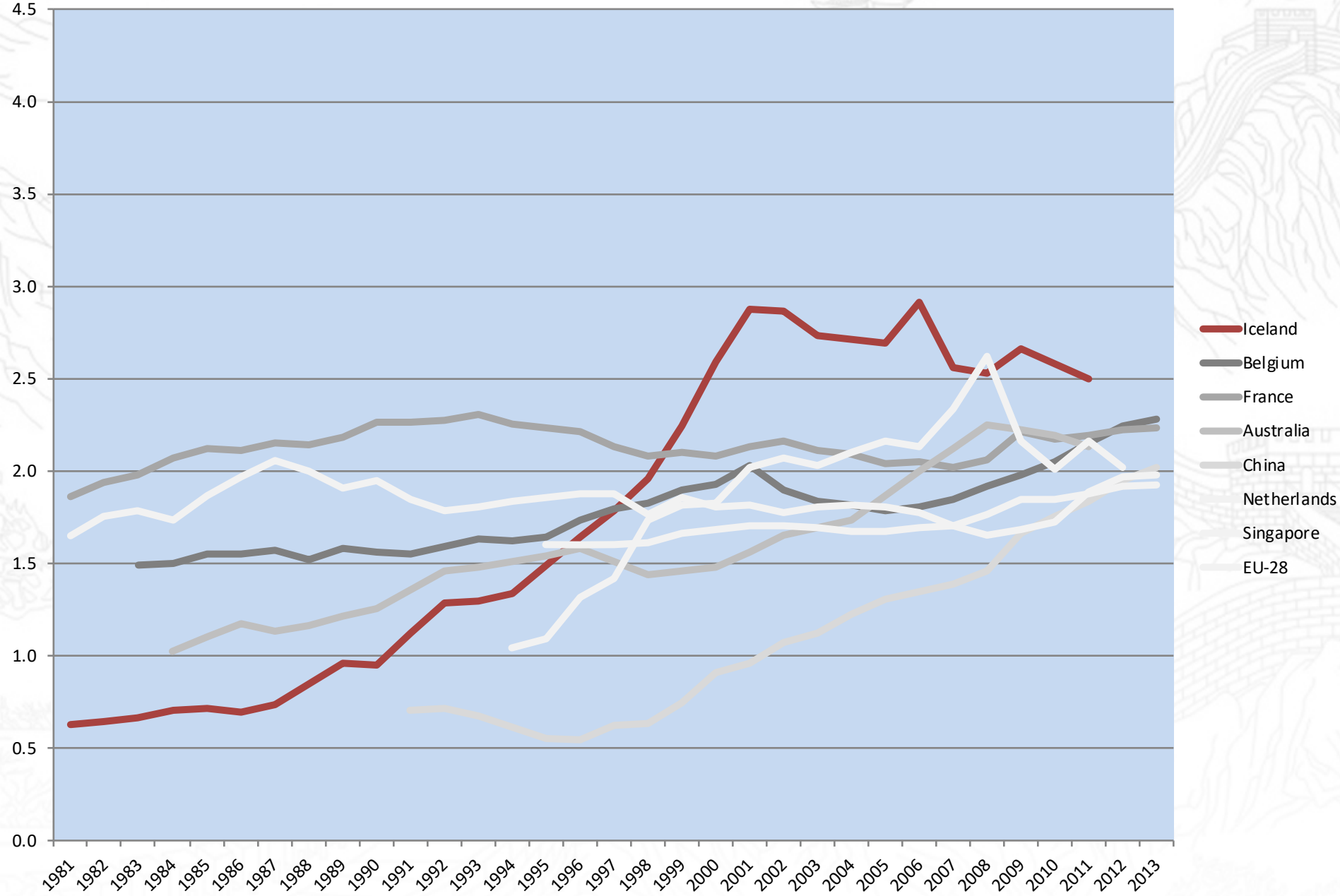
GERD as % of GDP



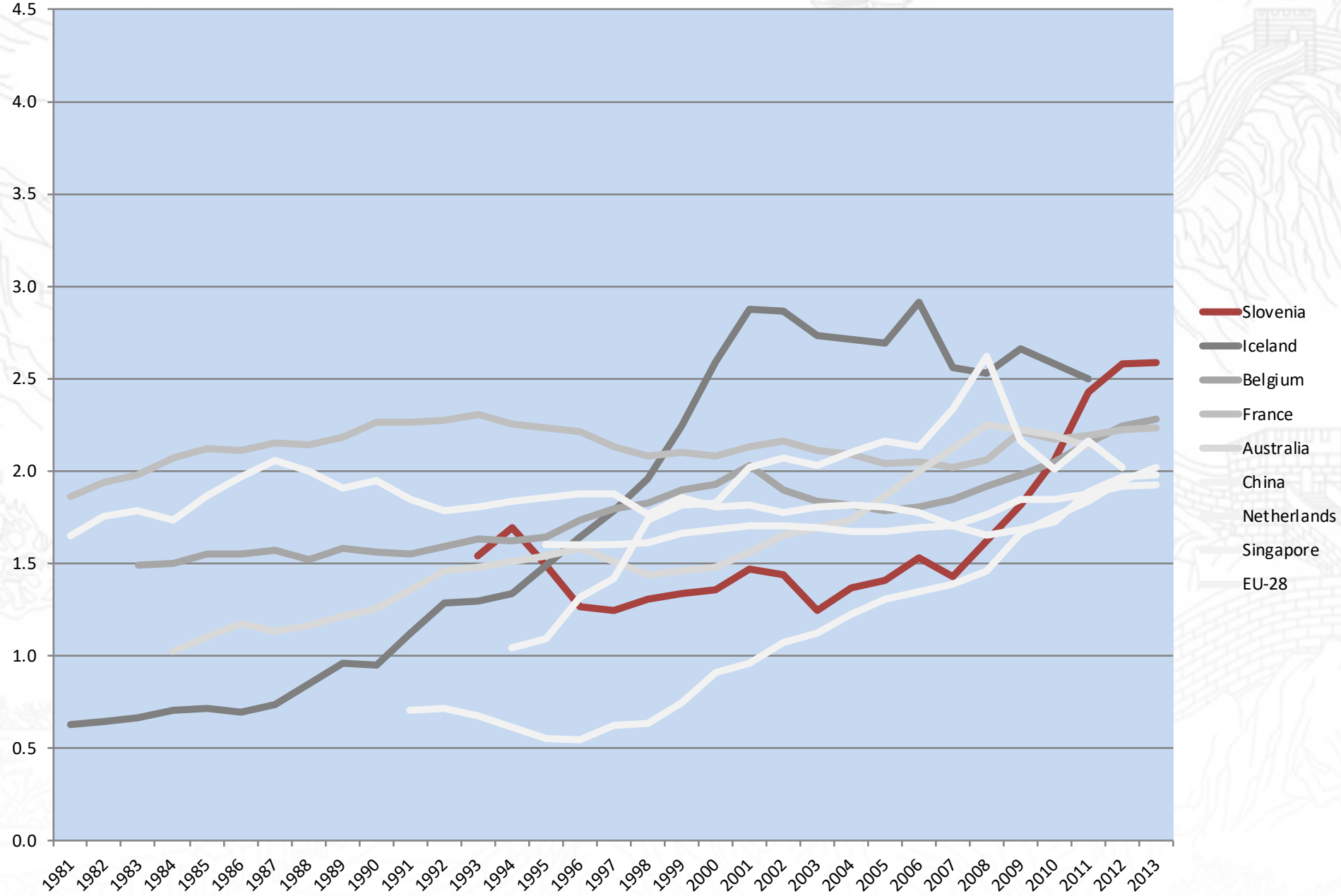
GERD as % of GDP



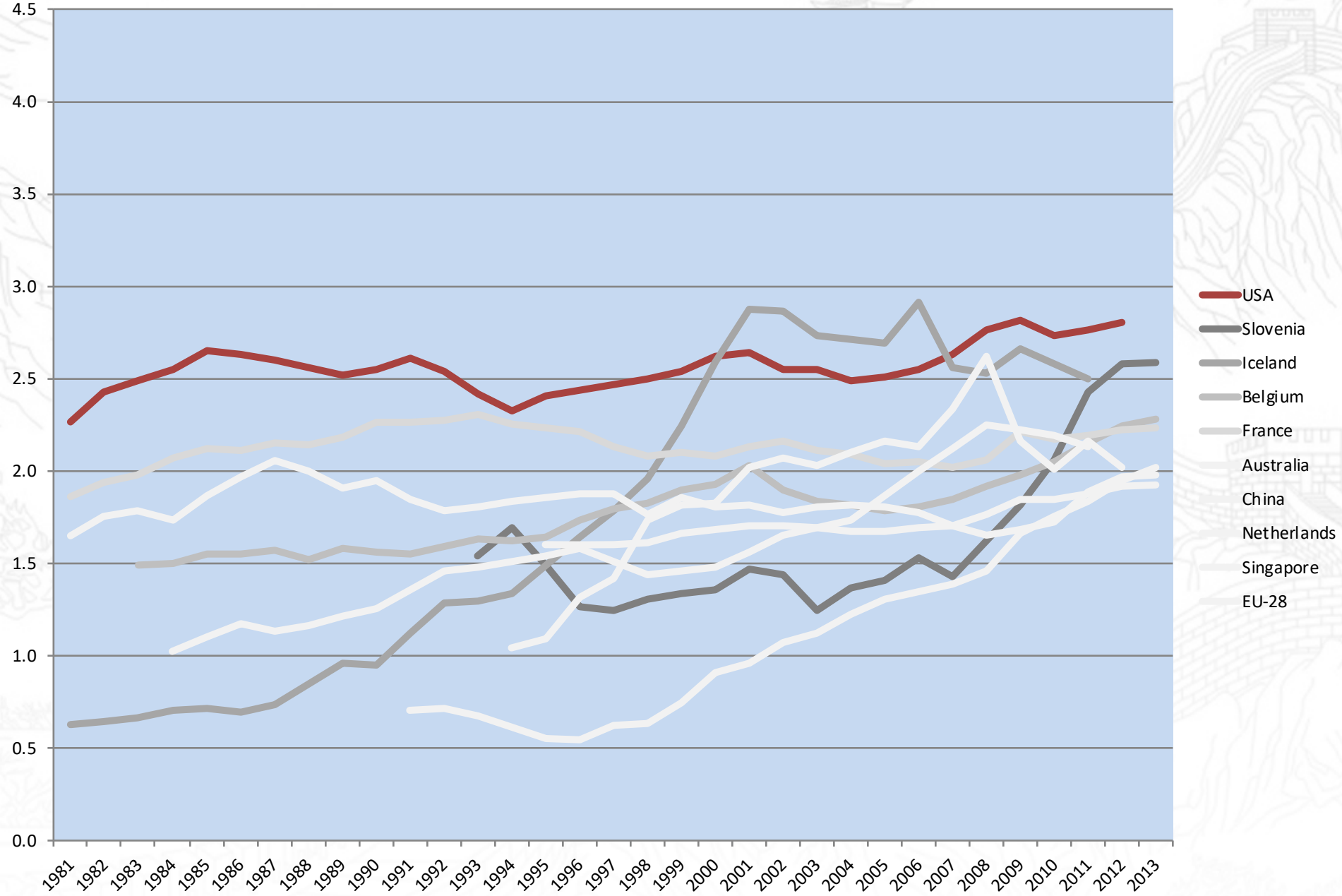
GERD as % of GDP



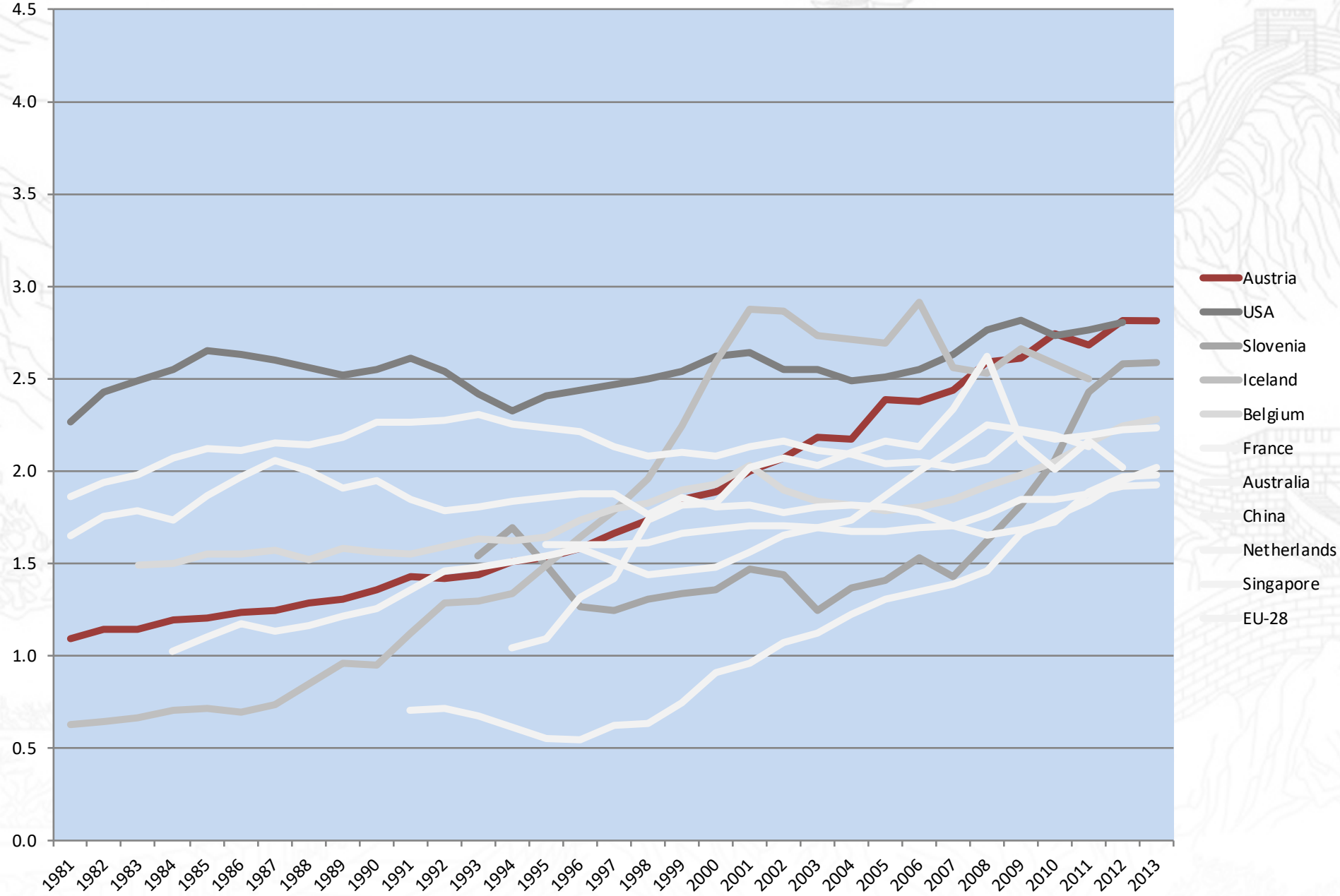
GERD as % of GDP



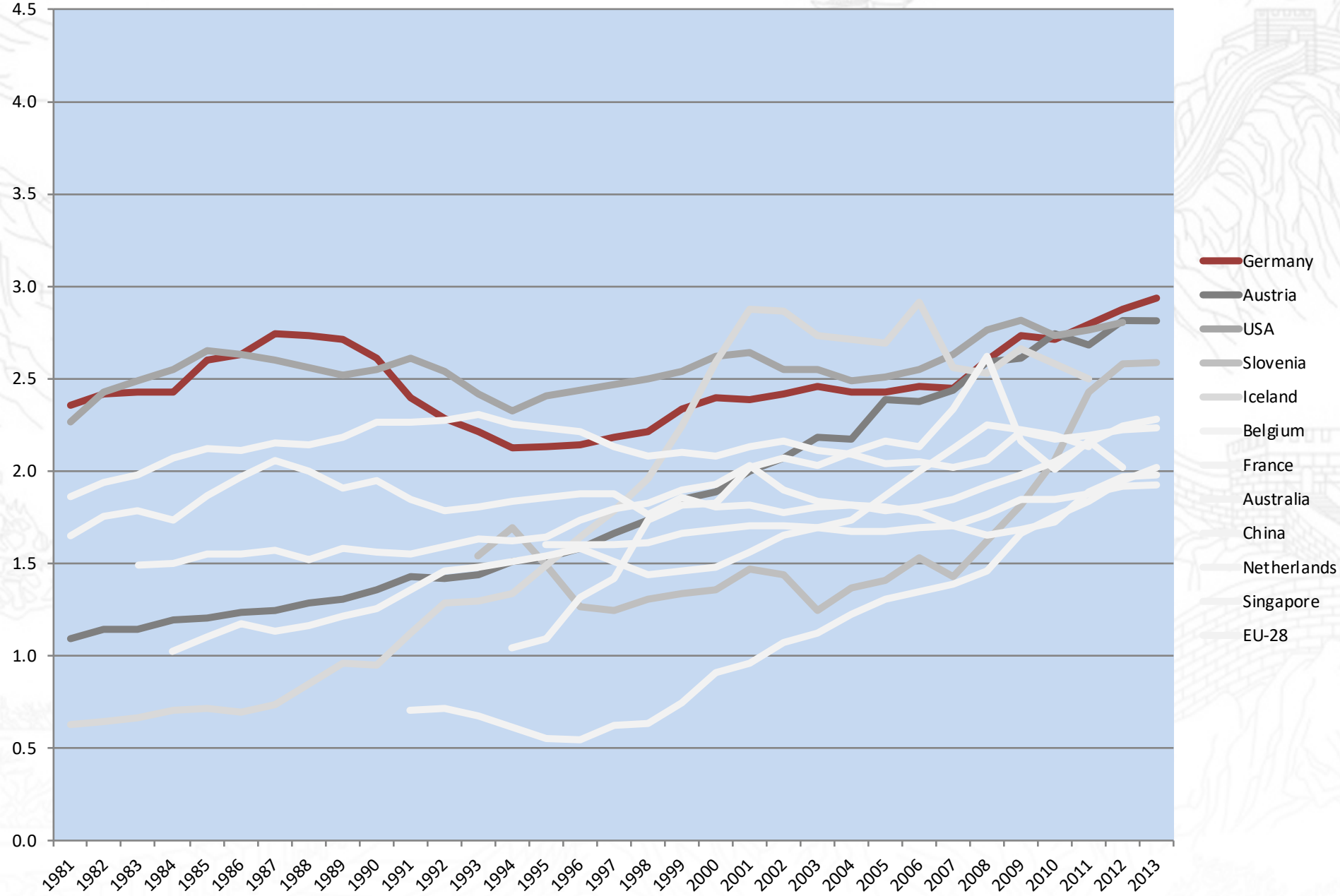
GERD as % of GDP



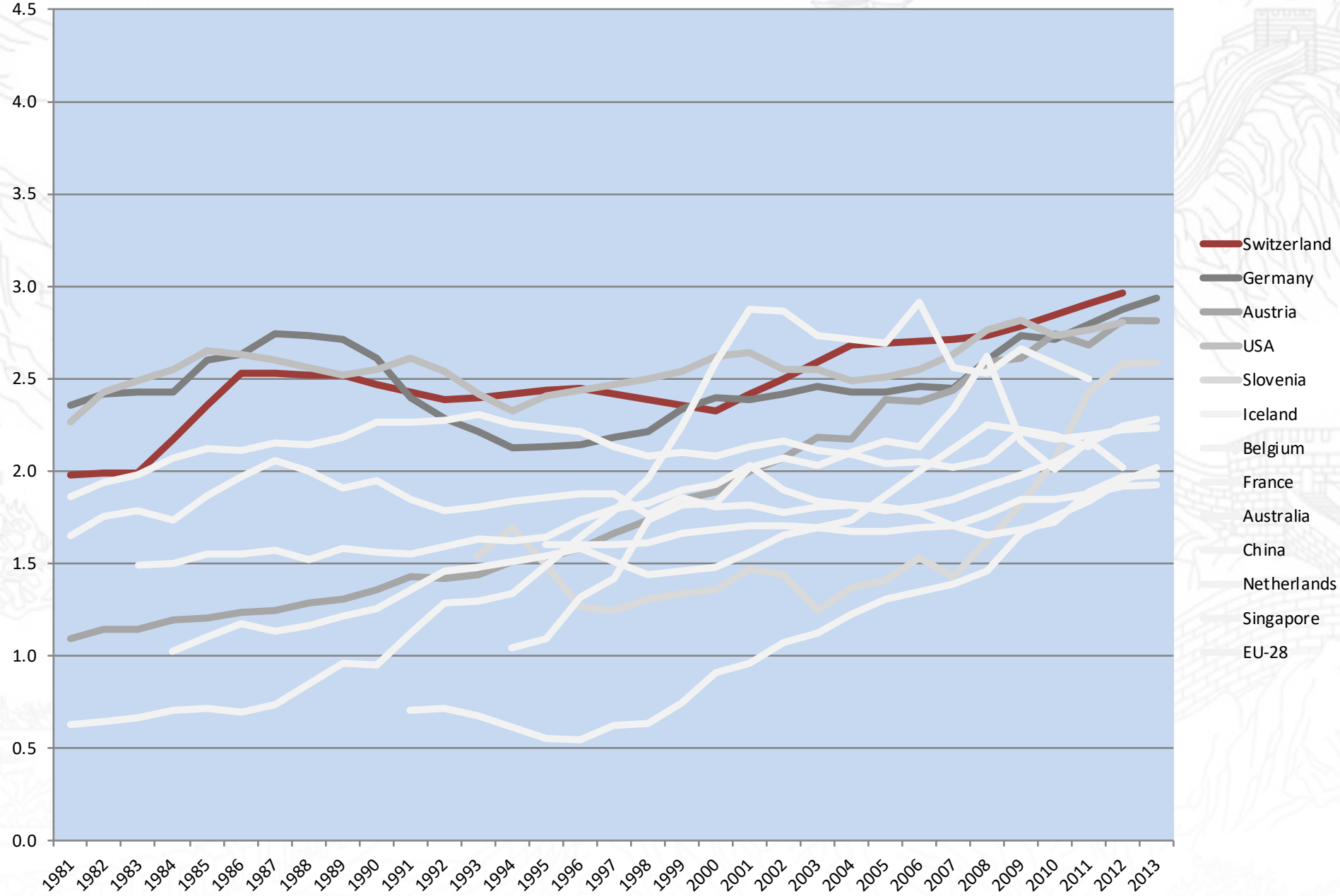
GERD as % of GDP



GERD as % of GDP



GERD as % of GDP



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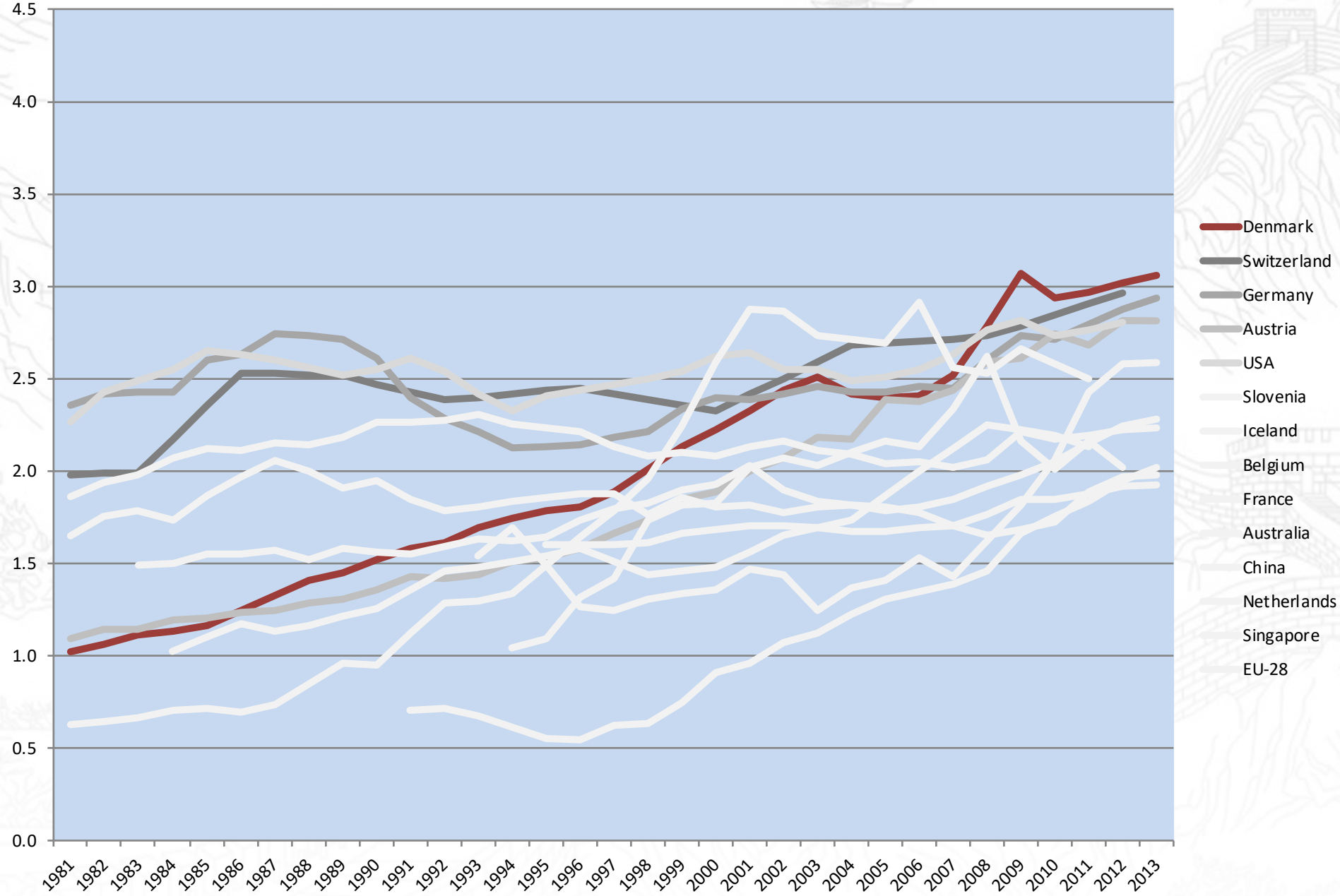
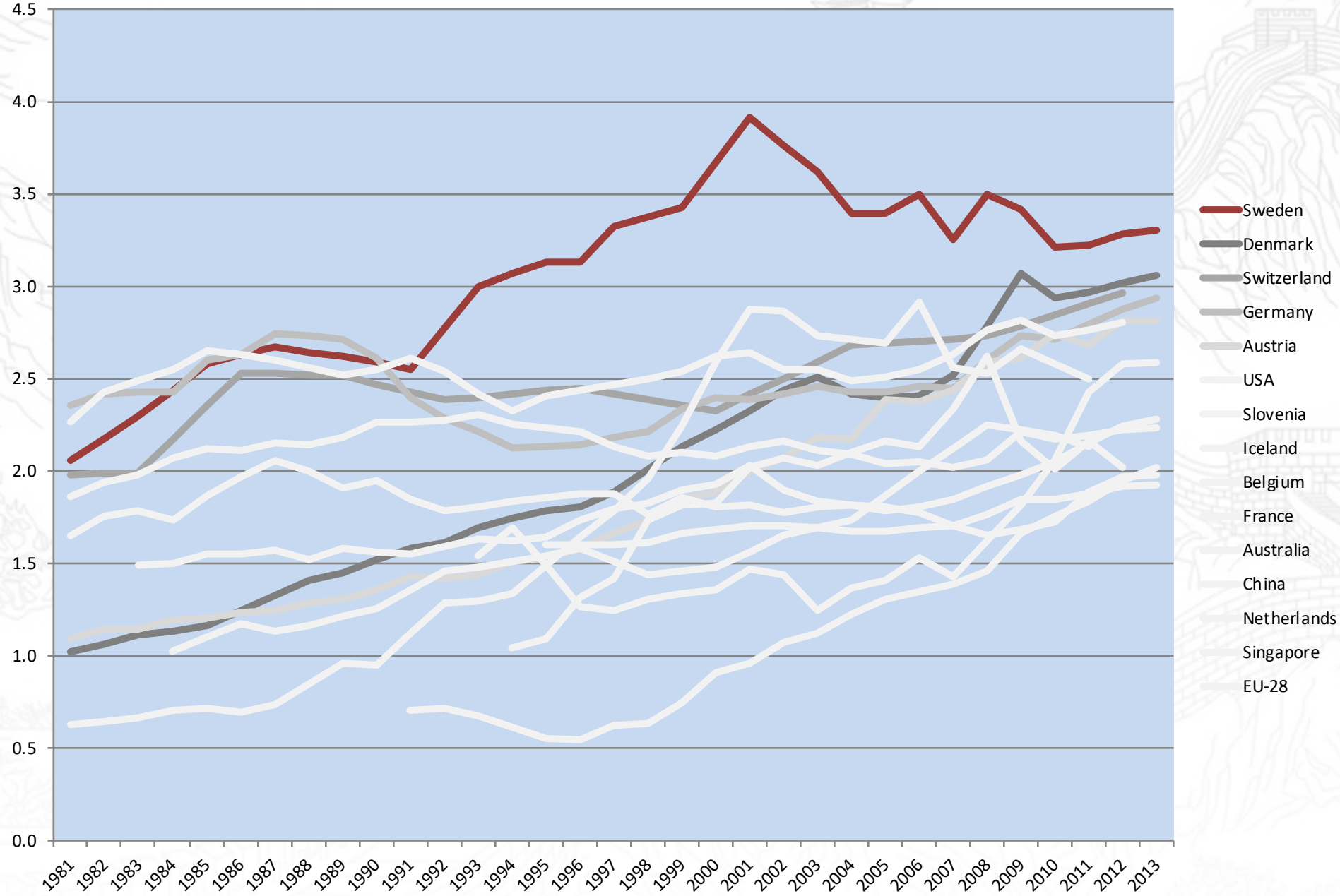
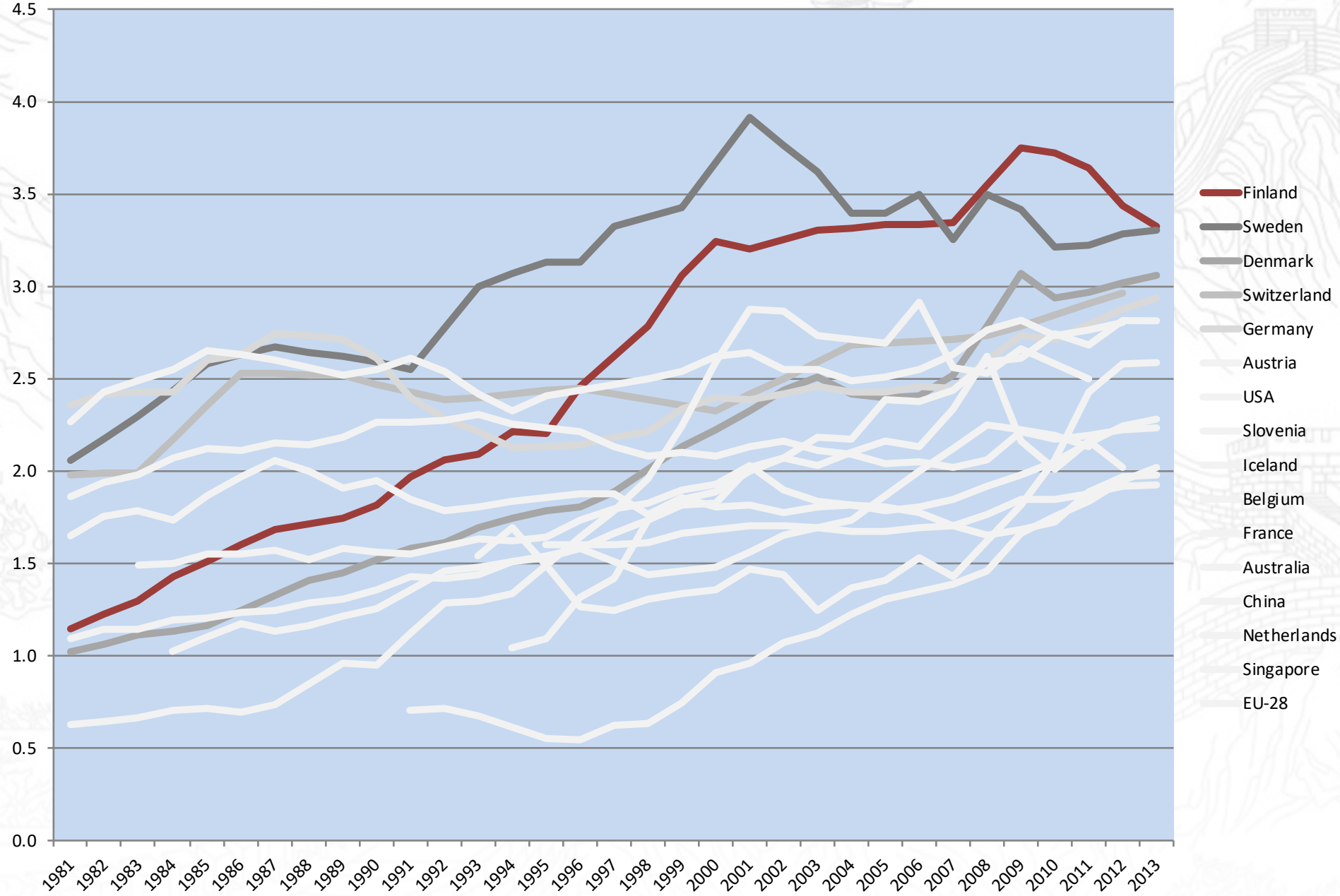


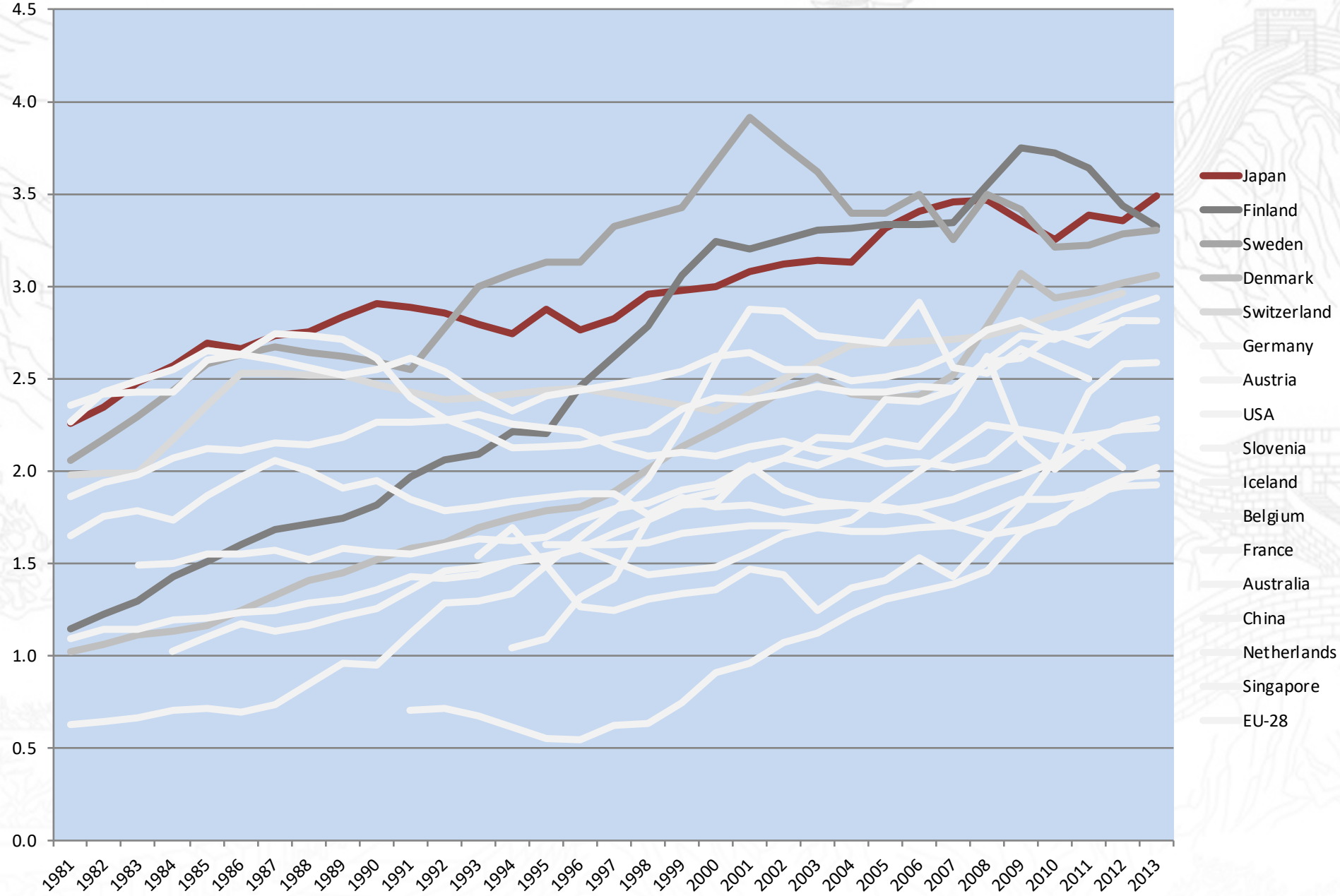
GERD as % of GDP



GERD as % of GDP



GERD as % of GDP



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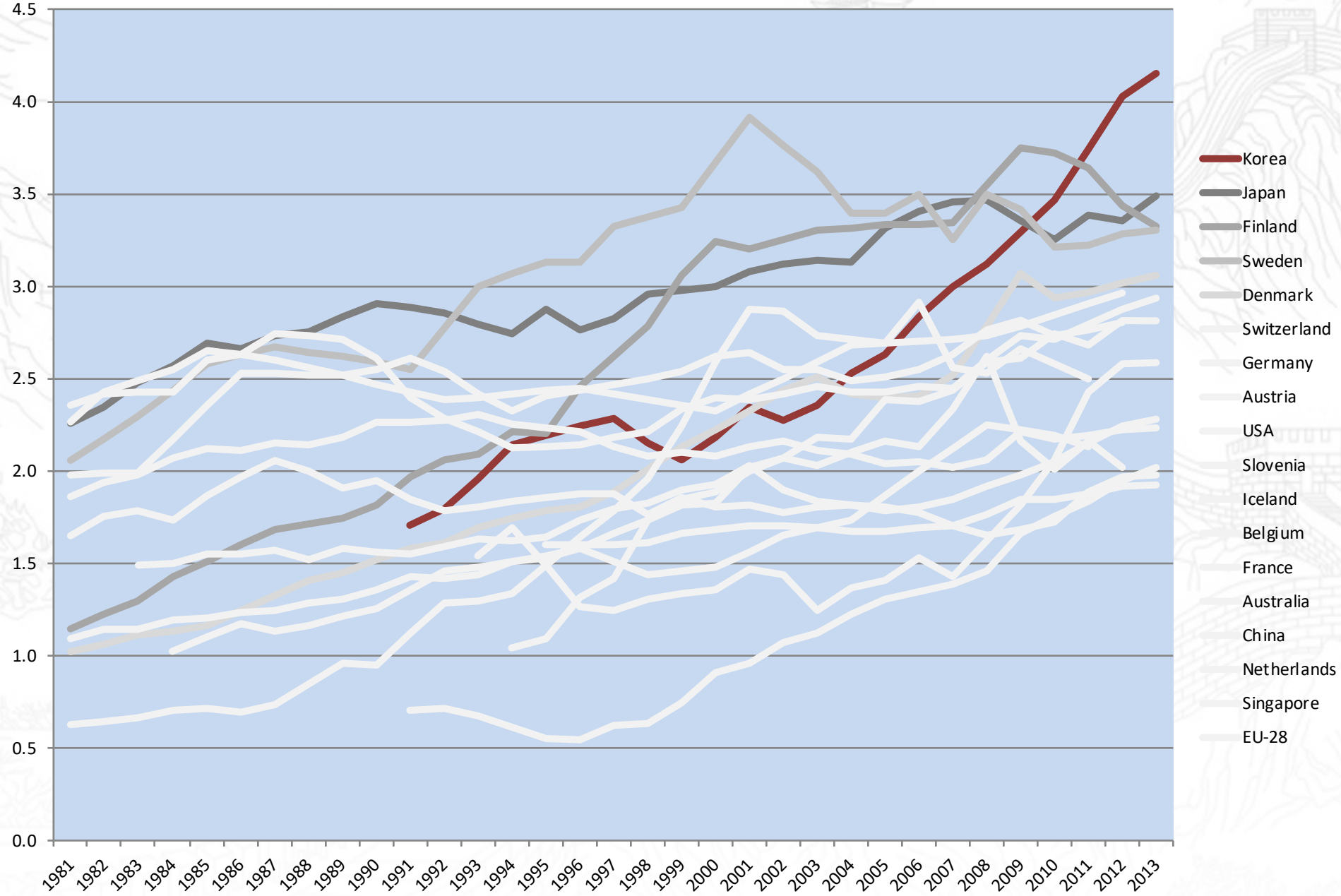
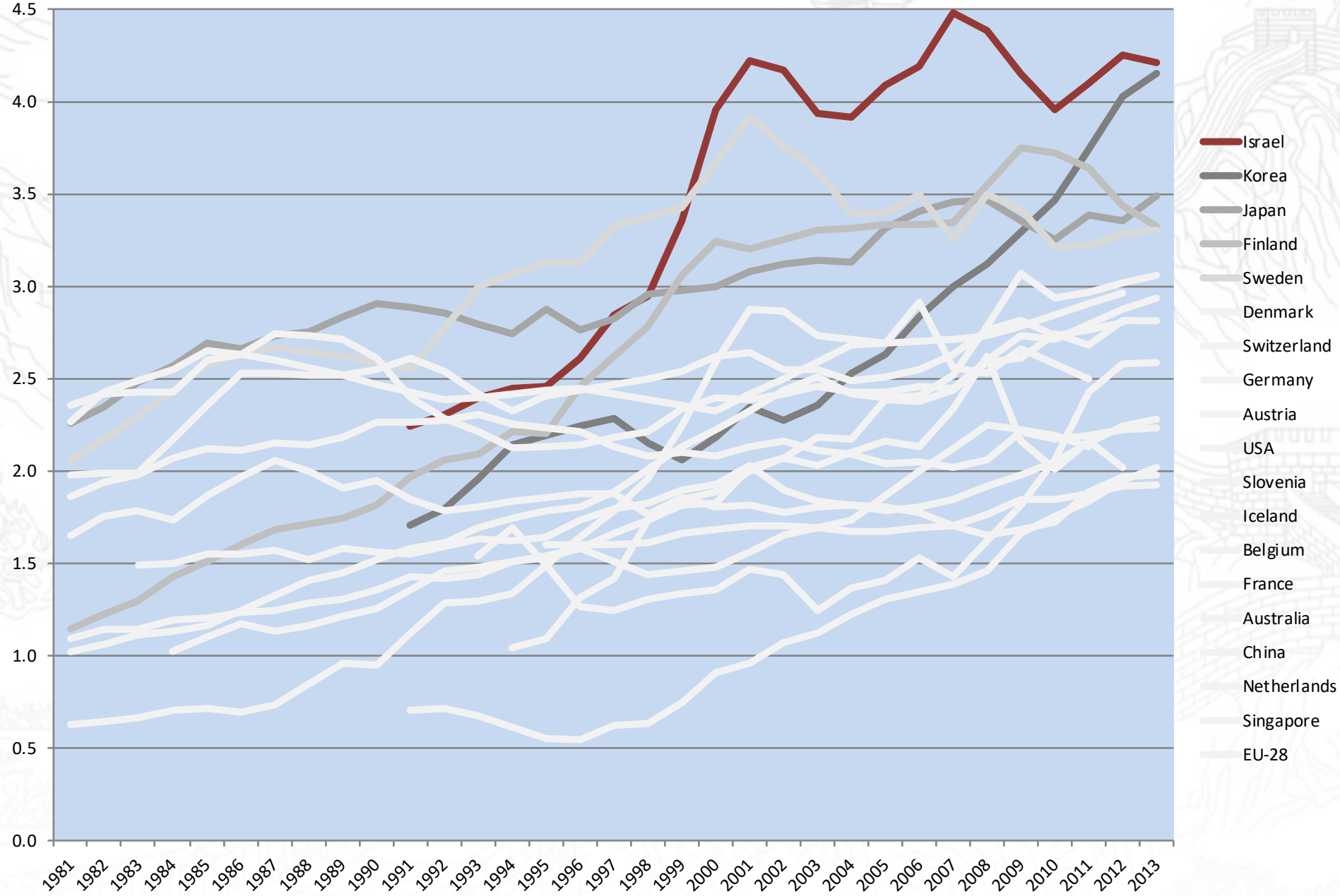


GERD as % of GDP



Why does GERD/GDP matter?

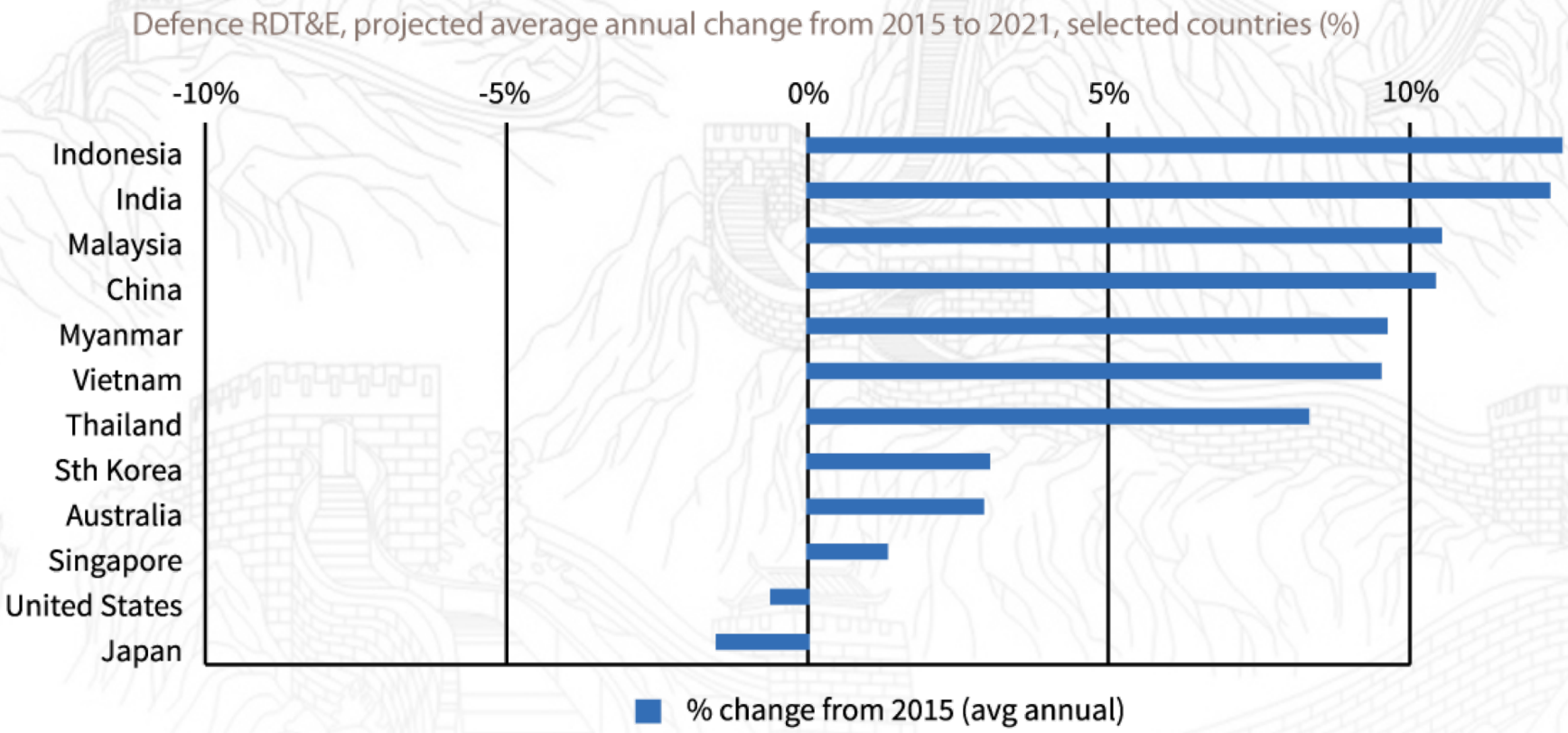
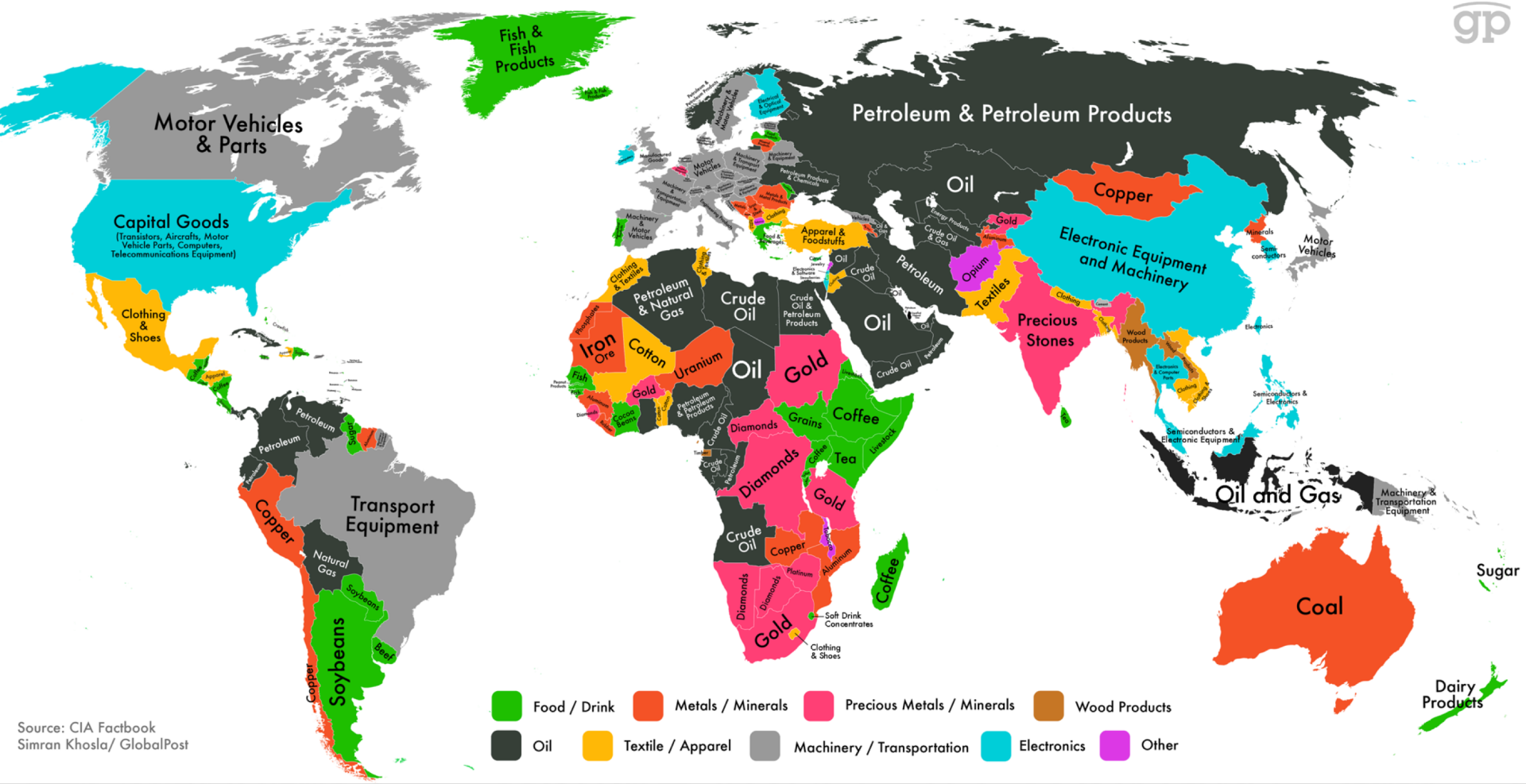


Chart from: Martin Callinan & Alan Gray, "Defence science and innovation: An affordable strategic advantage", Australian Strategic Policy Institute, June 2015

Just for fun: what makes us #1?

What are our #1 exports?



Source: CIA Factbook
Simran Khosla/ GlobalPost

OK. Things are changing. So what?

- "The grander the house, the deeper and stronger the foundations must be."
  - Rado's proverb

#1 trait for collaboration success

Relationships

Strong relationships require / build

- Trust
- Experience
- Conflict resolution skills
- Intercultural competency
- Interoperability of institutional & national systems

- Relationships = capital

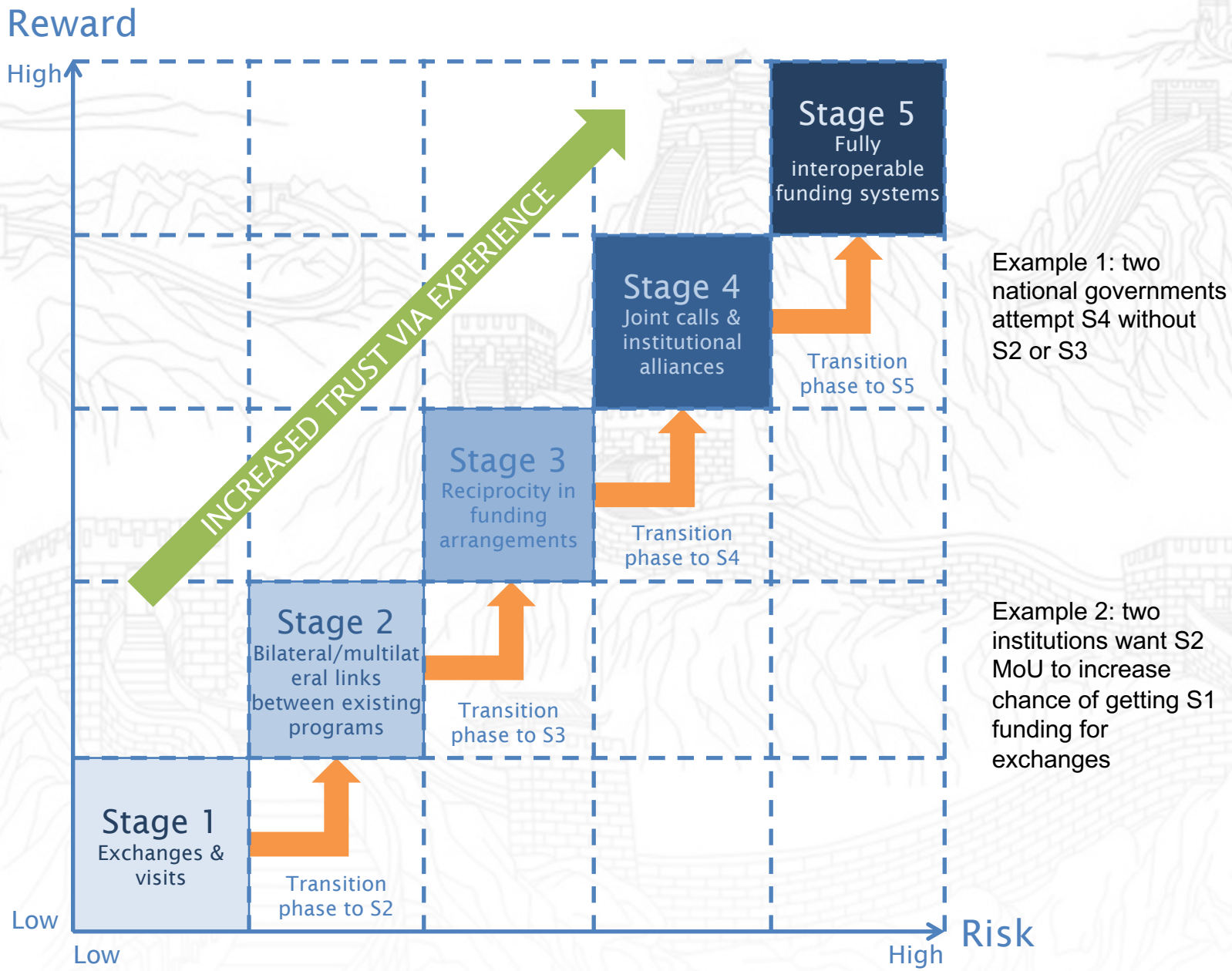
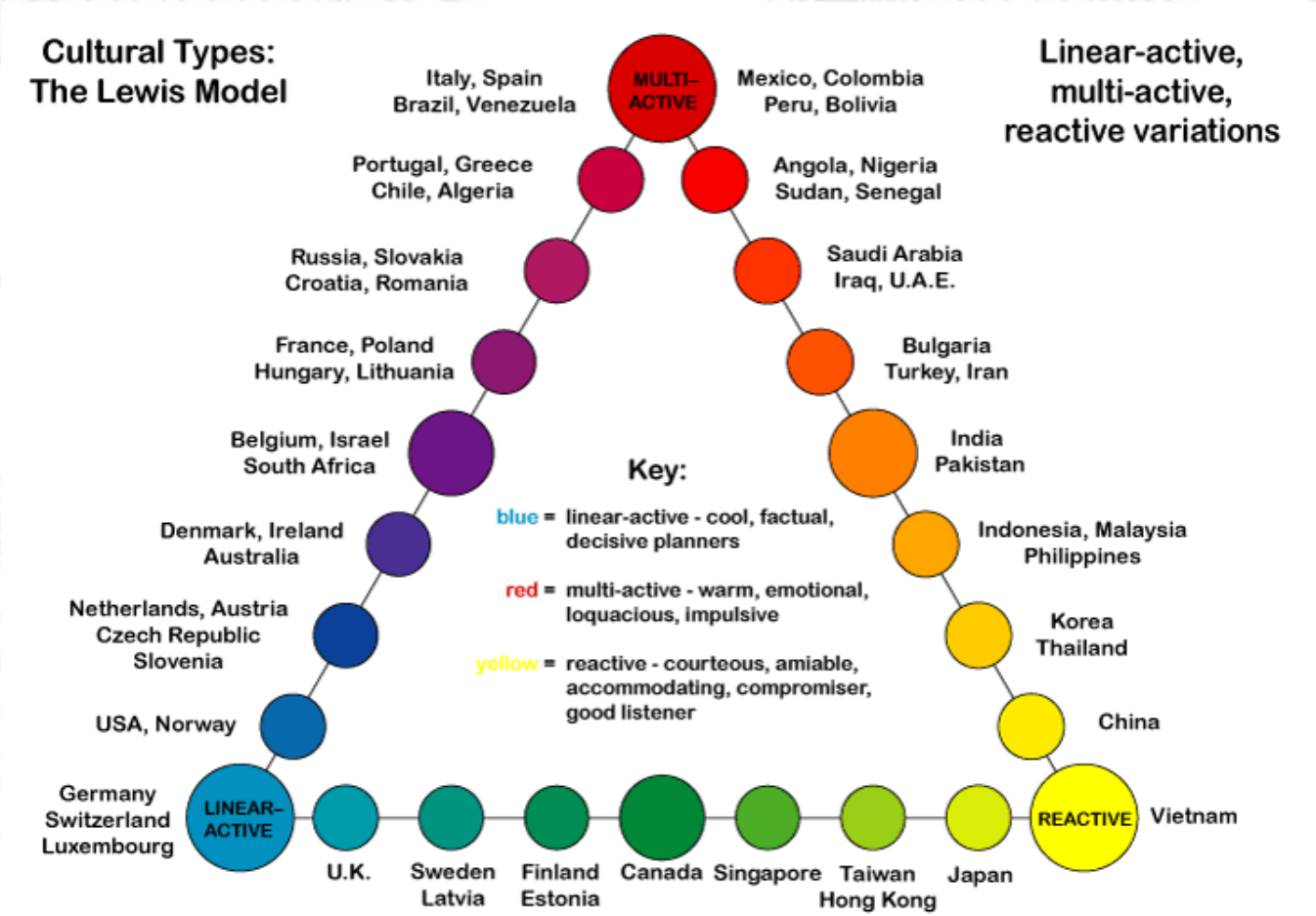


Diagram from: Mark Matthews & Merrilyn Fitzpatrick, "A framework for analysing bilateral research cooperation agreements relating to reciprocity", Access4EU deliverable 1.1, 2010

Every culture is different



Where to start?

- Student exchange?
- Conference?
- Scientific visit?
- Chaperone?

Yes!

Building sustainability?

- Constant capitalisation of resource base
  - i.e. continual investment in activities for relationship-building

- A lack of relationship capital ⇒ insufficient resources to sustain important / complex collaborations

Horizon 2020 as an example

- MCSA = 7.5% of budget
- Industrial Leadership (23%)
  + Societal Challenges (41%)
  – Significant proportion of € used for ECRs & collaboration activities
- This pool of talent, starting their careers within the EU research system, will be the capital that builds tomorrow's complex intra-EU and international collaborations.

Ensuring "sustainability"

Macro / global / big picture
Complex collaborations

Micro / local / individual
Relationship capital

Thank you!

Dr Rado Faletič
rado.faletic@montroix.com
www.montroix.com