Unlocking Economic Impact of Open Data in Asia Pacific:

Insights from the Open Data Barometer Research

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OPEN DATA LABS

OpenData Barometer

What is Open Data?

According to the **open definition,** to be truly open, data should be:

- **Available online** so as to accommodate the widest practical range of users and uses.
- **Open-licensed** so that anyone has permission to use and reuse the data.
- **Machine-readable** so that large datasets can be analysed efficiently.
- **Available in bulk** so that it can be downloaded as one dataset and easily analysed by a machine.
- **Free of charge** so that anyone can access it no matter their budget

Open Data

is a driver of innovation that can improve education and healthcare, create new businesses, and stimulate scientific progress.

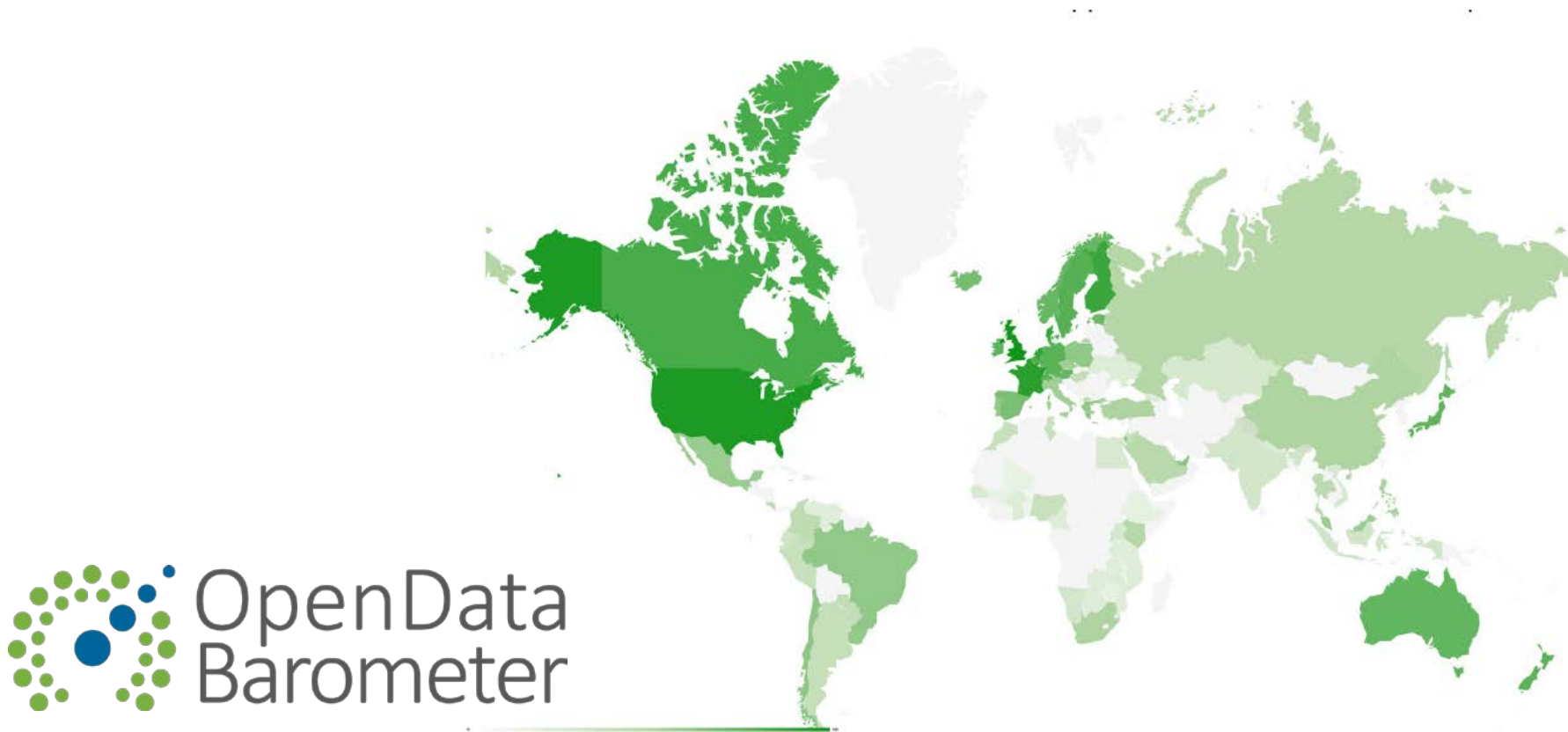# But mostly concentrated in 10 OECD countries

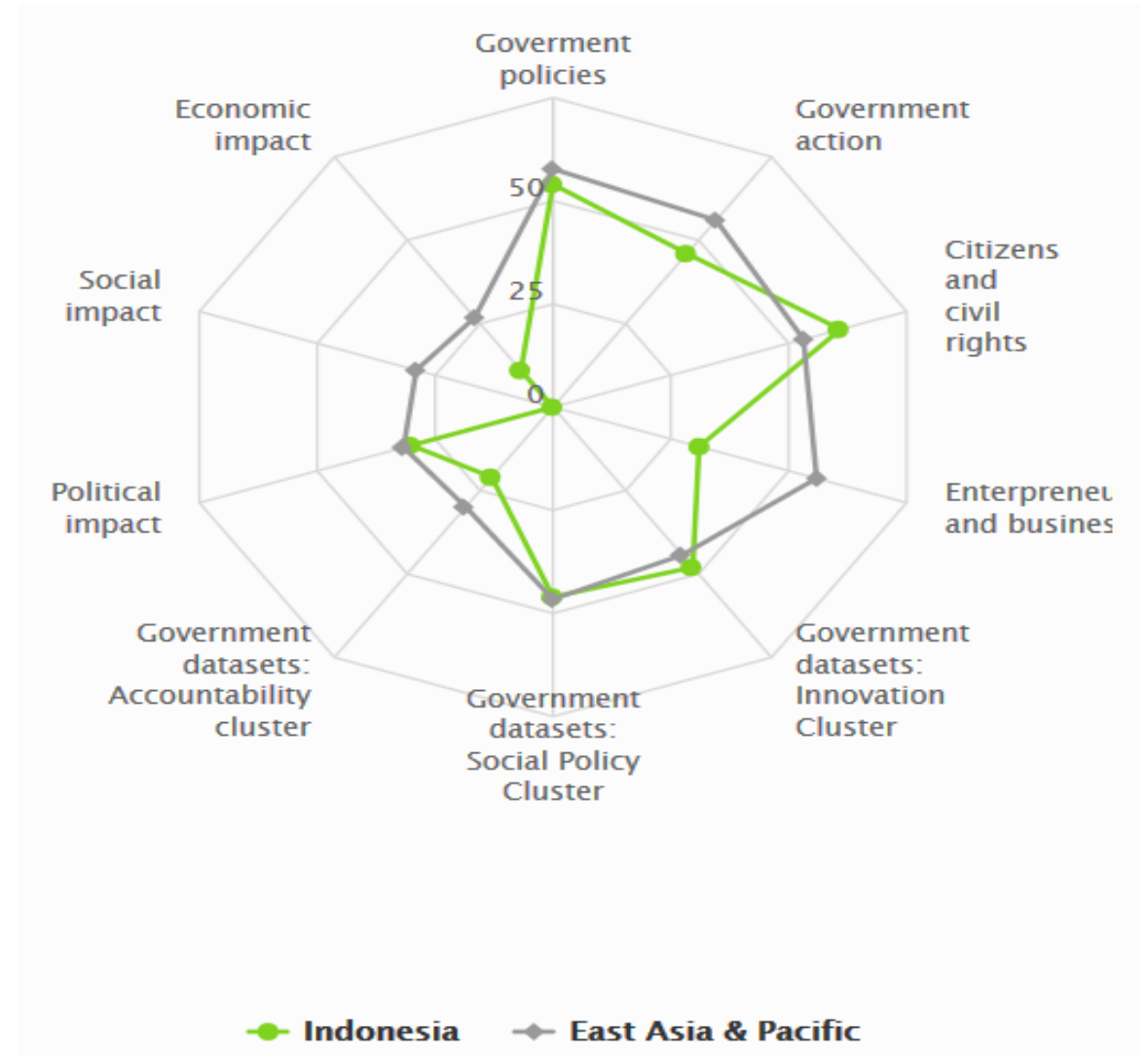Figure 7: Readiness for business and entrepreneurship.

Readiness and Implementation are the Weakest Links

Readiness:

How prepared are governments for open data initiatives? What policies are in place?

Implementation

Are governments putting their commitments into practice?

Readiness is a Collective Effort

Country	Readiness scaled (0-100)	Gov. policies scaled (0-100)	Gov. action scaled (0-100)	Civil society scaled (0-100)	Private sector scaled (0-100)
Australia	84	82	96	81	75
China	45	36	57	38	52
Indonesia	46	54	46	61	31
Japan	77	71	73	88	76
Malaysia	46	55	45	30	58
Myanmar	0	9	0	8	3
New Zealand	87	93	79	96	77
Philippines	55	62	51	57	53
Singapore	72	77	77	41	87
South Korea	95	97	98	92	86
Thailand	30	24	31	30	45
Vietnam	21	33	19	16	28
Median	42.5	43	54	49	55.5

■ *best value for each of the data series (rows)*   ■ *worst value for each of the data series (rows)*

Table 1. Highest and lowest readiness scores for countries in East Asia and the Pacific - 3rd Edition of the Barometer

Open data readiness is not just about government laying the groundwork, but also about the preparedness of the private sector and civil society
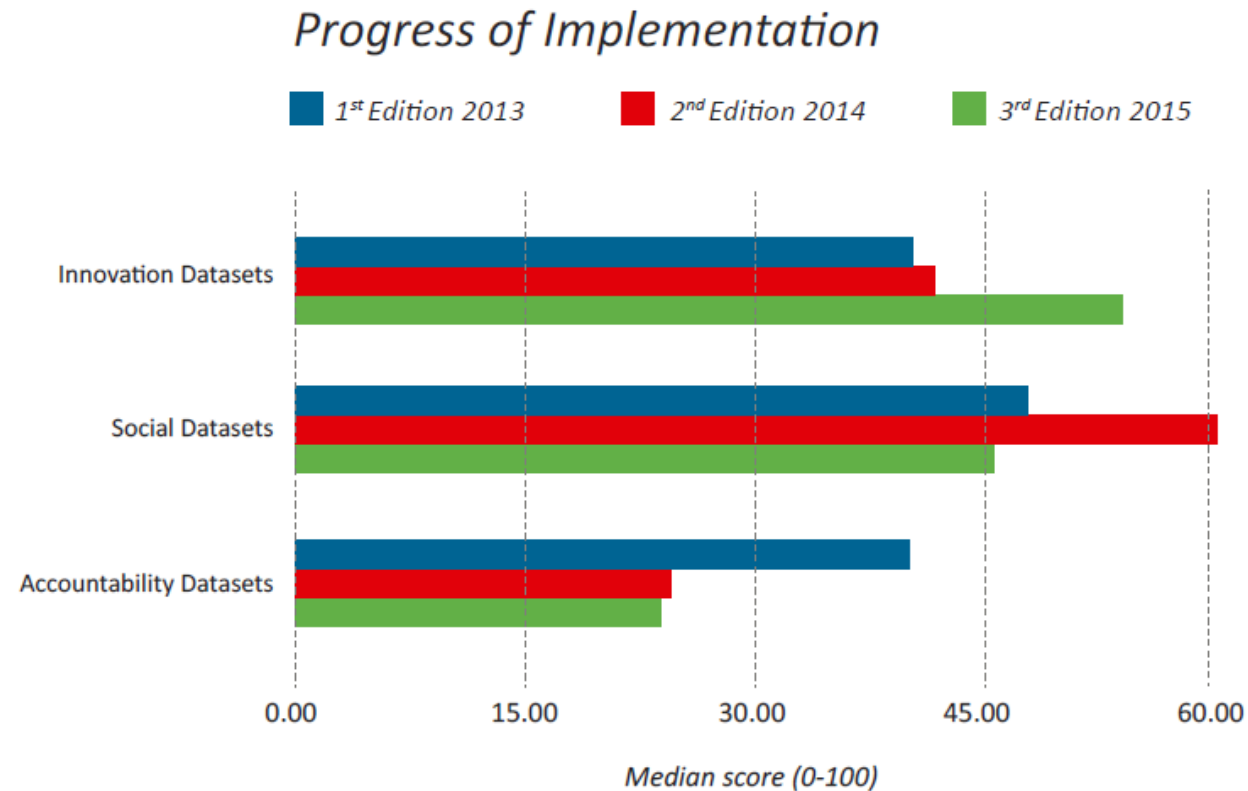
Innovation Datasets Become Increasingly Open

Progress of Implementation

■ 1st Edition 2013   ■ 2nd Edition 2014   ■ 3rd Edition 2015

Median score (0-100)

ure 2. Progress in implementation of open data in the East Asia and the Pacific for each of the groups of datasets included in the survey
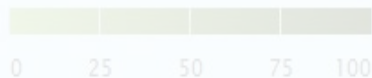
But with Varying Quality

Dataset	Subset	Machine Readable	Bulk	Free	License	Updated	Sustainable	Discoverable	Linked
Elections	Accountability	33.33%	16.67%	33.33%	25.00%	33.33%	33.33%	25.00%	0.00%
Land	Accountability	25.00%	8.33%	25.00%	25.00%	16.67%	16.67%	16.67%	8.33%
Budget	Accountability	50.00%	33.33%	50.00%	25.00%	50.00%	50.00%	50.00%	0.00%
Spend	Accountability	8.33%	8.33%	8.33%	0.00%	8.33%	8.33%	8.33%	0.00%
Company	Accountability	25.00%	8.33%	25.00%	16.67%	16.67%	16.67%	8.33%	0.00%
Legislation	Accountability	16.67%	8.33%	16.67%	16.67%	16.67%	16.67%	8.33%	0.00%
Map	Innovation	50.00%	25.00%	16.67%	16.67%	41.67%	50.00%	41.67%	0.00%
Trade	Innovation	83.33%	33.33%	83.33%	33.33%	83.33%	83.33%	50.00%	0.00%
Crime	Innovation	66.67%	25.00%	66.67%	25.00%	58.33%	50.00%	33.33%	0.00%
Contracts	Innovation	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	8.33%	0.00%
Transport	Innovation	50.00%	25.00%	50.00%	16.67%	41.67%	41.67%	33.33%	0.00%
Health	Social policy	50.00%	8.33%	41.67%	33.33%	33.33%	41.67%	33.33%	0.00%
Education	Social policy	58.33%	33.33%	58.33%	41.67%	33.33%	33.33%	41.67%	0.00%
Environment	Social policy	75.00%	0.00%	75.00%	25.00%	50.00%	50.00%	58.33%	0.00%
Census	Social policy	83.33%	58.33%	75.00%	33.33%	75.00%	83.33%	83.33%	0.00%

* East Asia Pacific Countries Datasets
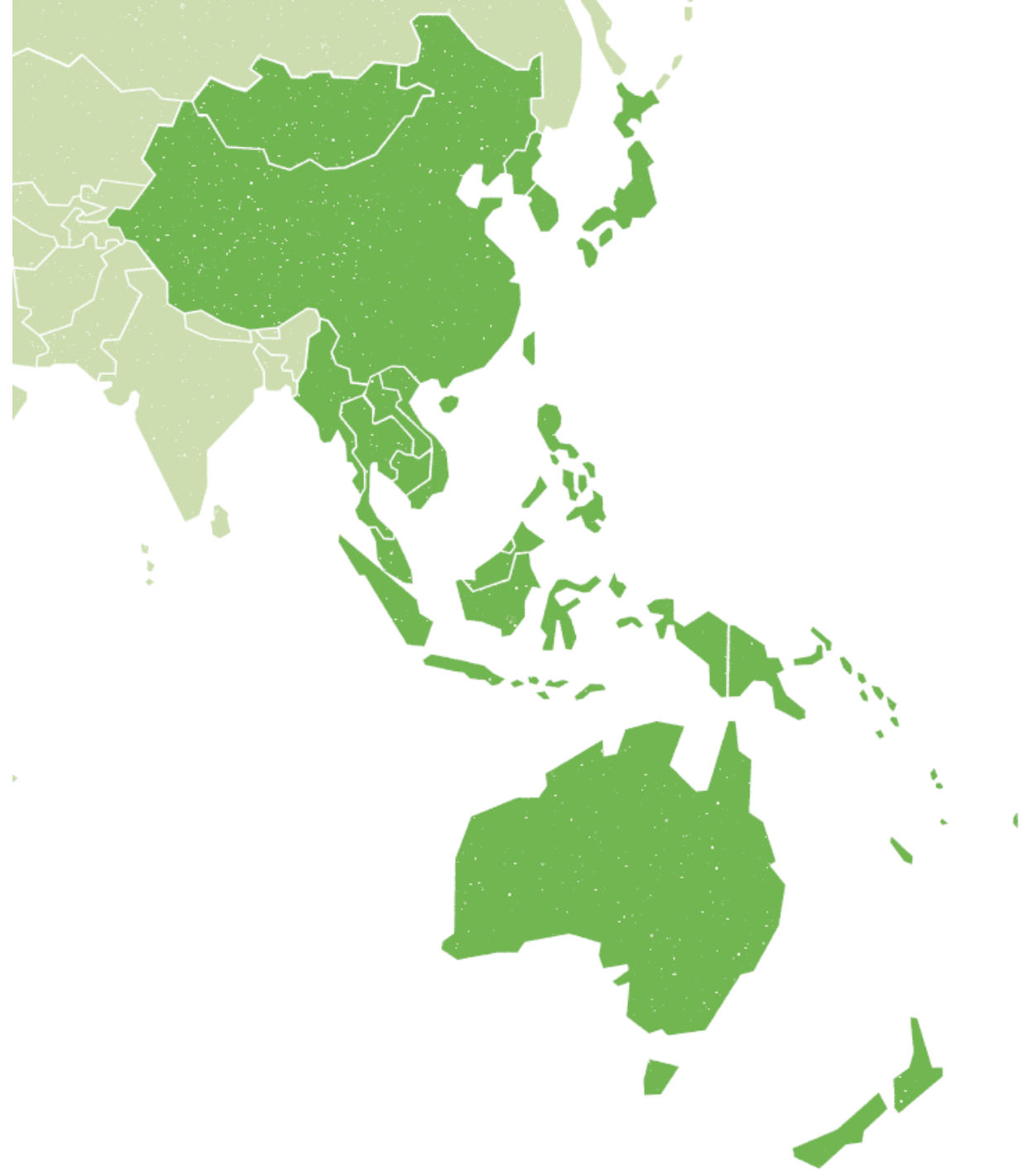
From Commitments to Impact:

Republic of Korea's Race to the Top 10

- Open data is one of top priorities.
- The Open Data Law enacted in 2013, creating an open data implementation mechanism.
- Providing $20 million for executing open data policies.
- Releasing more than 3,000 datasets from both national and subnational levels.
- Supporting private sector innovation through the development of applications and portals (e.g. transport, environment and energy) — all widely used by citizens.

Open Data Barometer (2015)

0   25   50   75   100

Recommendation

- Invest in open data practice and policy frameworks.

- Increase investment in the capacity of private sector and civil society to engage with government on open data.

- Allow for testing and experimenting to find the most suitable approach.

- Strengthen cross-country learning in the region.

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Backup Slides

55% The majority of countries in the survey - 55% - now have an open data initiative in place

Only 10% of government data is published as open data. **10%**

50% Half of all open data sets are found in just the top 10 OECD countries. The gap between data haves and have-nots needs urgent attention

ODB 3rd Edition - Global Highlights

Readiness (35%) (Primary & secondary data)			
Government policies (¼)	Government action (¼)	Entrepreneurs & business (¼)	Citizens & civil society (¼)

Implementation (35%) (Dataset assessments)		
Accountability dataset cluster (⅓)	Innovation dataset cluster (⅓)	Social policy dataset cluster (⅓)

Impacts (30%) (Primary data)		
Political (⅓)	Economic (⅓)	Social (⅓)

ODB - Methodology

Datasets

Accountability	Innovation	Social Policy
- Land - Budget - Spend - Company - Legislation - Elections	- Map - Transport - Trade - Crime - Contracts	- Census - Health - Education - Environment

Implementation

Readiness Questions

- **Policies and data management approaches:** Do governments have adequate policies and protocols in place for ensuring open data can be made available over the long term?

- **Government action at the national and subnational level:** Is the groundwork being laid for the benefits of open data to be used at all levels of government?

- **Civil rights and the role of citizens:** Are citizens and civil society empowered to participate in government decision-making using open data?

- **Business and entrepreneurship:** Are businesses and entrepreneurs able to take advantage of the economic opportunity offered by open data?

Implementation Sub-Index: Dataset Questions

1. Does the data **exist**?

2. Is it **available online** from government in any form?

3. Is the dataset provided in **machine-readable** formats?

4. Is the machine-readable data available in **bulk**?

5. Is the dataset available **free of charge**?

6. Is the data **openly licensed**?

7. Is the dataset **up to date**?

8. Is the publication of the dataset **sustainable**?

9. Was it **easy to find** information about this dataset?

10. Are **(linked) data URIs** provided for key elements of the data?

East Asia & Pacific