ASIAN FUTURES from the 2018 STM REPORT

Michael Mabe
CEO, International Association of STM Publishers
The STM Report

- Published October 2018
- Fifth edition, expanded to 212pp
The development of the STM Report

TheJournal
OpenAccess
NewDevelopments
Conclusionsandreferences

Available at: https://www.stm-assoc.org
Changes in publishing models

STM Membership 2018

- Americas: 40%
- EMEA: 48%
- APAC: 12%

50% increase in 3 years
Spending on Content

Figure 4: Global spending on academic and scientific content in 2016 by region and product (in € million, of total) (Source: OC&C, cited in SpringerNature 2018)
Global R&D 2015 (SE Indicators 2018)

Global R&D expenditures, by region: 2015

Billions of U.S. PPP dollars

North America $535 (27.9%)
Central America and Caribbean $2 (0.1%)
South America $50 (2.6%)
Europe $415 (21.6%)
Middle East $56 (2.9%)
Africa $20 (1.0%)
Central Asia $39 (2.0%)
South Asia $53 (2.8%)
East and Southeast Asia $721 (37.6%)
Australia and Oceania $27 (1.4%)

World total = $1,918

PPP = purchasing power parity.
Article Shares 2010-14

Figure 11: Share of world articles 2010-2014 (Source: Elsevier 2017a)
Figure 12: Global shares of article outputs 2006-16 (Source: NSB 2018)
Peer Review Supply & Demand (Publons 2018)
Share of world citations 2010-2014 (Elsevier 2017a)
Share of S&E publications in the top 1% of most cited publications 2004–14 (NSB 2018)

Figure 5-30
Share of S&E publications in the top 1% of most cited publications, by selected region, country, or economy: 2004–14
Citation inflation:
increase in the average citations per article, for China and the World (Jia et al. 2018)
Percentage OA by Nation

Source: EC Open Science Monitor, April 30th 2018

[Graph showing OA percentages by nation]
STM Publishing in China

- CAST (2017) list 5,020 Chinese journals
  - 548 (10.9%) English language
    - Half of these co-published with foreign publishers
- Academic publishing highly fragmented
  - 96% of titles are sole title of publisher
- Prices are extremely low and has not attracted many private investors
Open Access in China

• NSFC and CAS mandate deposit into repositories within 12 months (2014)
• CAS developed two portals:
  – Institutional Repository Grid of CAS, 102 repositories
  – China Open Access Journal Portal
• MoST is developing its own OA policy
• Mostly this aligns with US policies but there is support for OA2020
• Main driver is to increase quality and transparency
Summary

• APAC R&D investment is huge (esp. China)
• Has led to rapidly increasing article shares for China and India
• Quality from the region is also improving (esp. from China)
• Severe imbalance in peer review demand and supply (esp. China and India)
• Revenues from APAC lowest at 9% but growing
• OA activity at the lower end of international ranges (so far)
Questions?