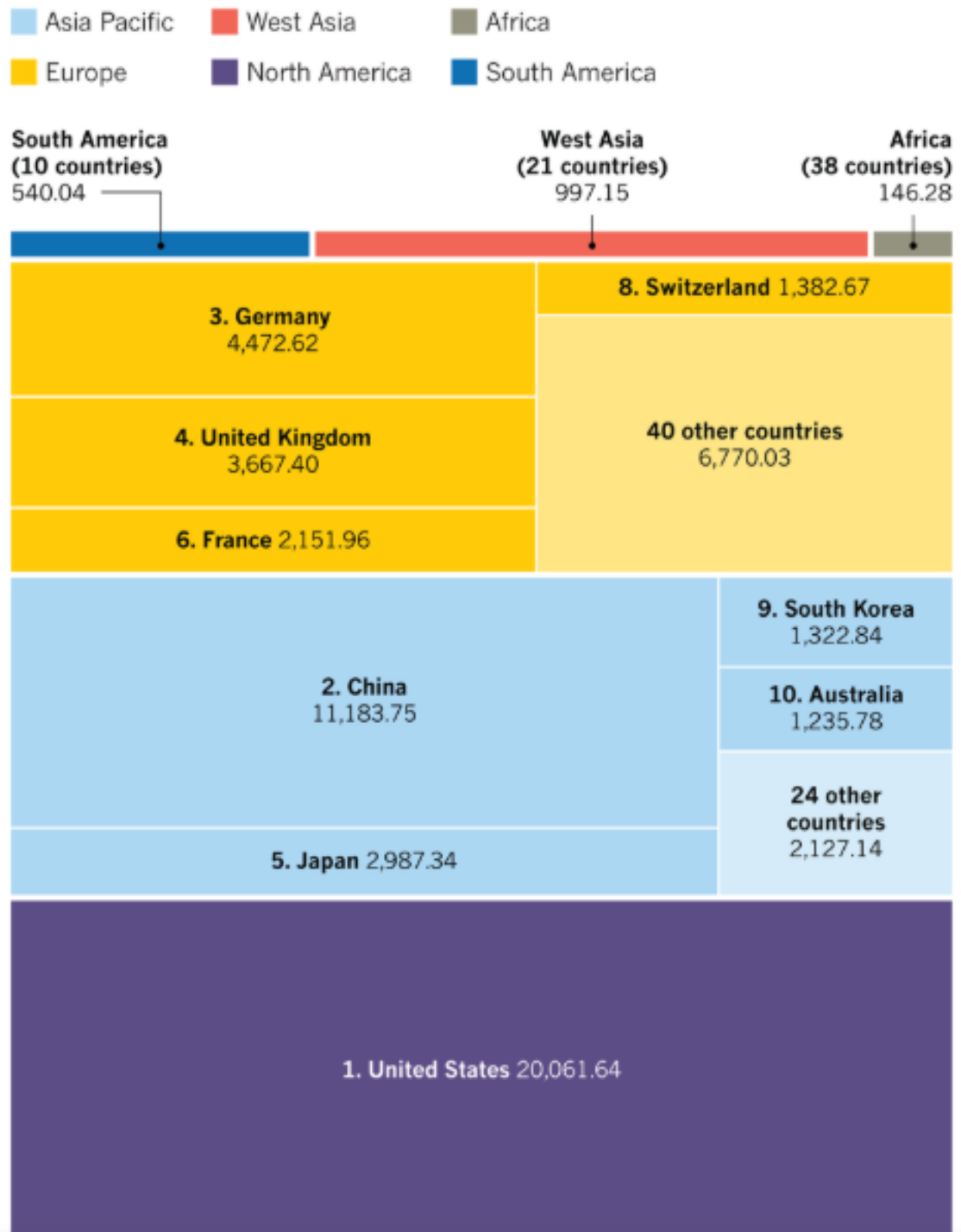


Global Research Networks

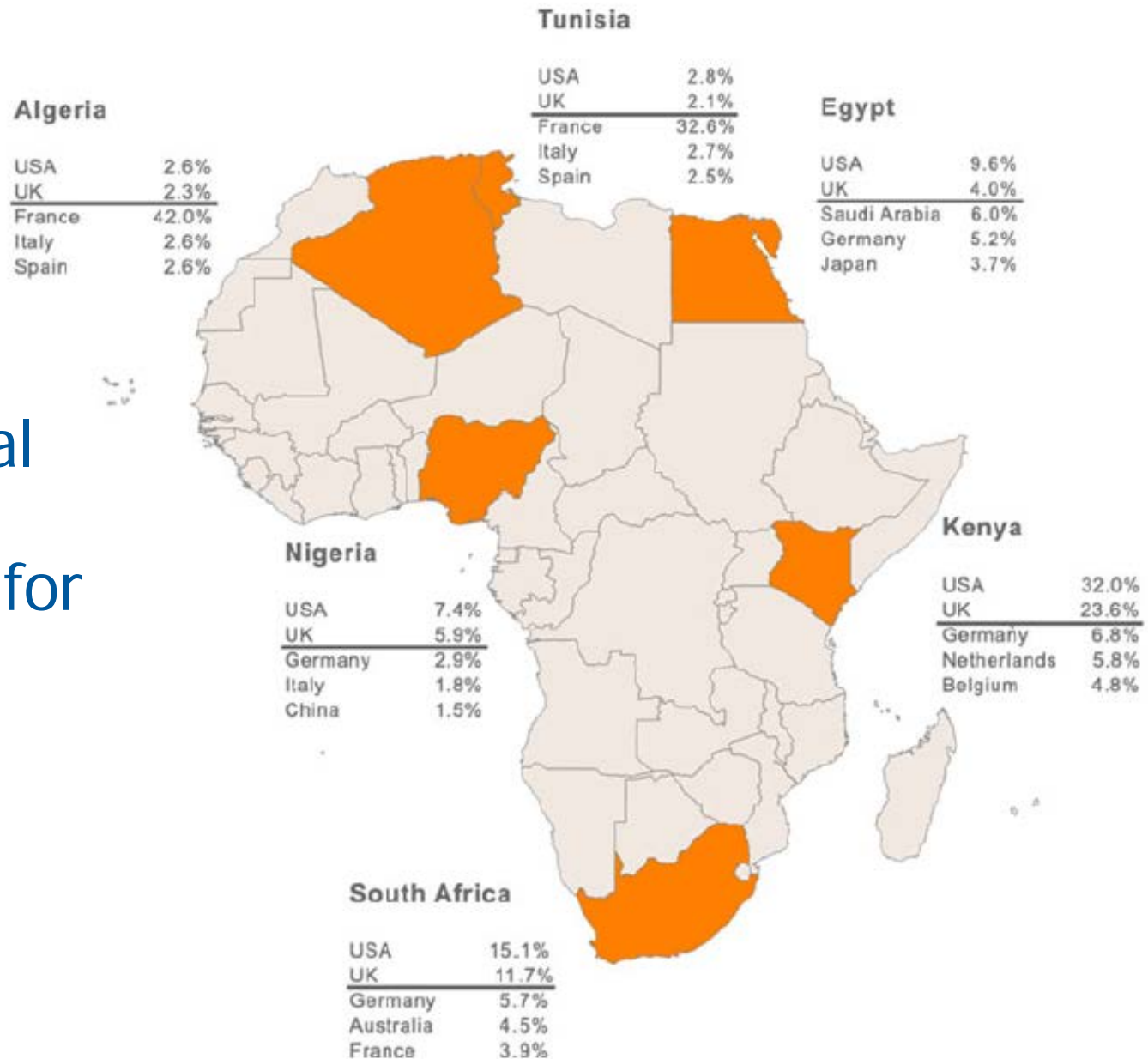
Systems Analysis and Africa
3 December 2019, Pretoria

Raya Muttarak
World Population Program
IIASA

The top 10 countries in research collaboration (Nature Index 2019)



Most frequent intercontinental research collaborations for six key African research economies

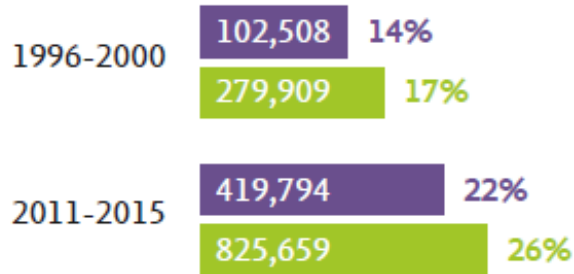


Source: Adams et al. 2014. *Scientometrics*.

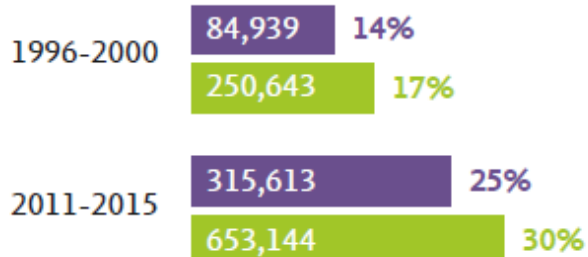
Women collaborate less than men at an international level

SCHOLARLY OUTPUT RESULTING FROM INTERNATIONAL COLLABORATION AS A SHARE OF TOTAL SCHOLARLY OUTPUT

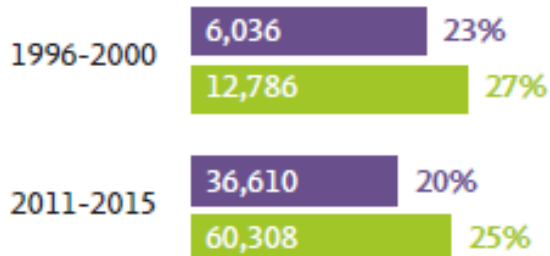
EU28



United States

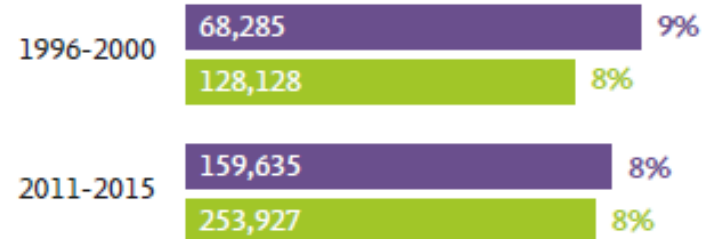


Brazil

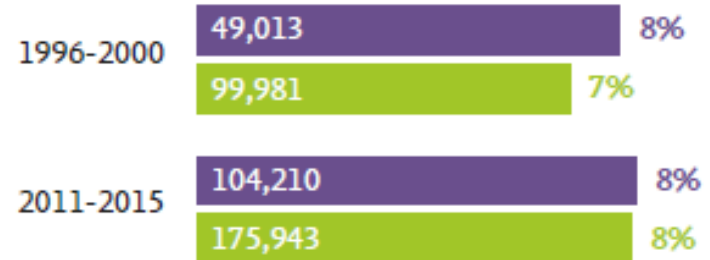


Highly interdisciplinary research represents a slightly larger share of women's scholarly output than men's

EU28



United States



Brazil



Keys to successful international and multi- and interdisciplinary collaborations

- ▶ Ensuring opportunities to do cutting-edge science
 - Not involving researchers from other countries just to gain access to samples or to fulfil funding requirements
- ▶ Bridge cultural, intellectual, and practical differences
 - Communications
 - Opportunities for discussion and disagreement
- ▶ Effective leadership
- ▶ Sharing of data, new methods or techniques, software, media outputs

Research environments enabling successful collaborations

- ▶ Funding that span several disciplines
 - e.g. under a common key research question
 - Evaluation committees need to be equipped to deal with multidisciplinary proposals
- ▶ High quality journals that bridges highly divergent disciplines
- ▶ Academic institutions/departments that recognise and give merit to multidisciplinary research
- ▶ Infrastructure for efficient communications

Thank you

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