



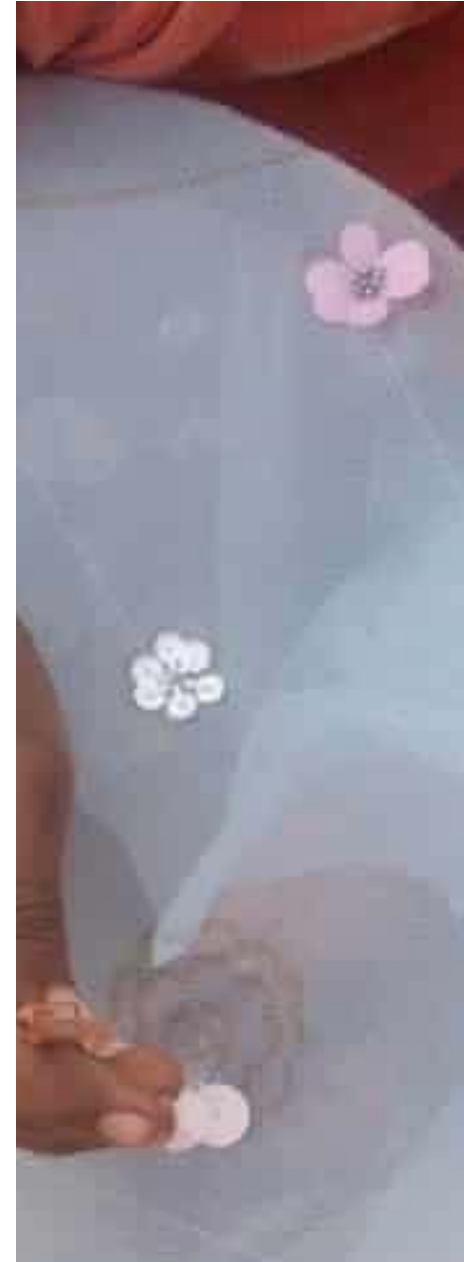
The University of Manchester
Alliance Manchester Business School

Resilience in Value Chain and Vulnerability Reduction

The Role of a Trusted Digital Identity
in an Integrated Supply Chain and
Payment System

Professor Ser-Huang Poon

Turing Fellow, University of Manchester



The
Alan Turing
Institute

Research projects +

Trustworthy digital infrastructure for identity systems

Trustworthy digital infrastructure for identity systems – Impact projects

University of Manchester



The University of Manchester

Resilience in value chain and vulnerability reduction

An in-depth survey of the challenges faced in assigning identities to home and migrant workers with a particular focus in how identity systems can safely support, and empower, extremely vulnerable groups who are incapable of managing their own identities.

The Team



UNITED KINGDOM

Top 5 **imported** products at risk of modern slavery

Importing country ■

Source country ■

Source: The global modern slavery index



GARMENTS



ELECTRONICS[†]



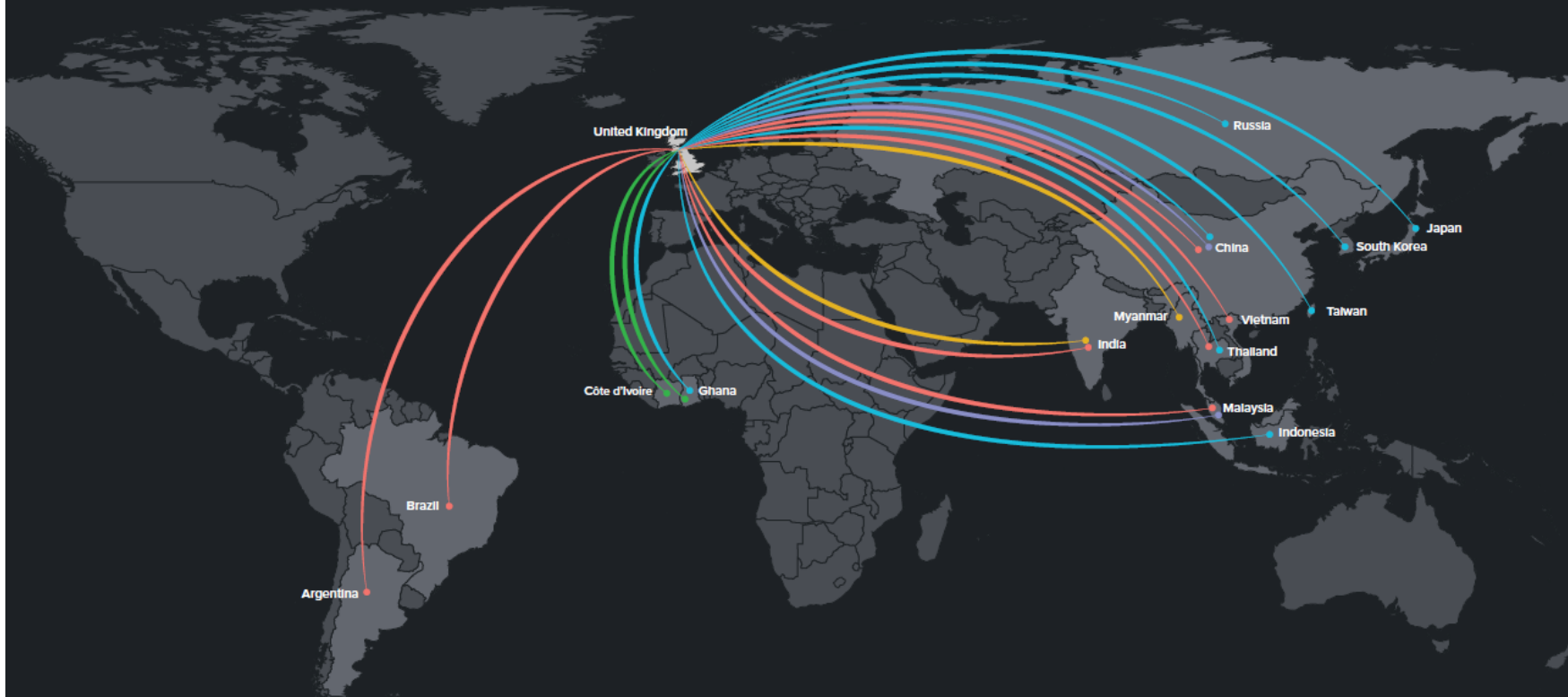
FISH



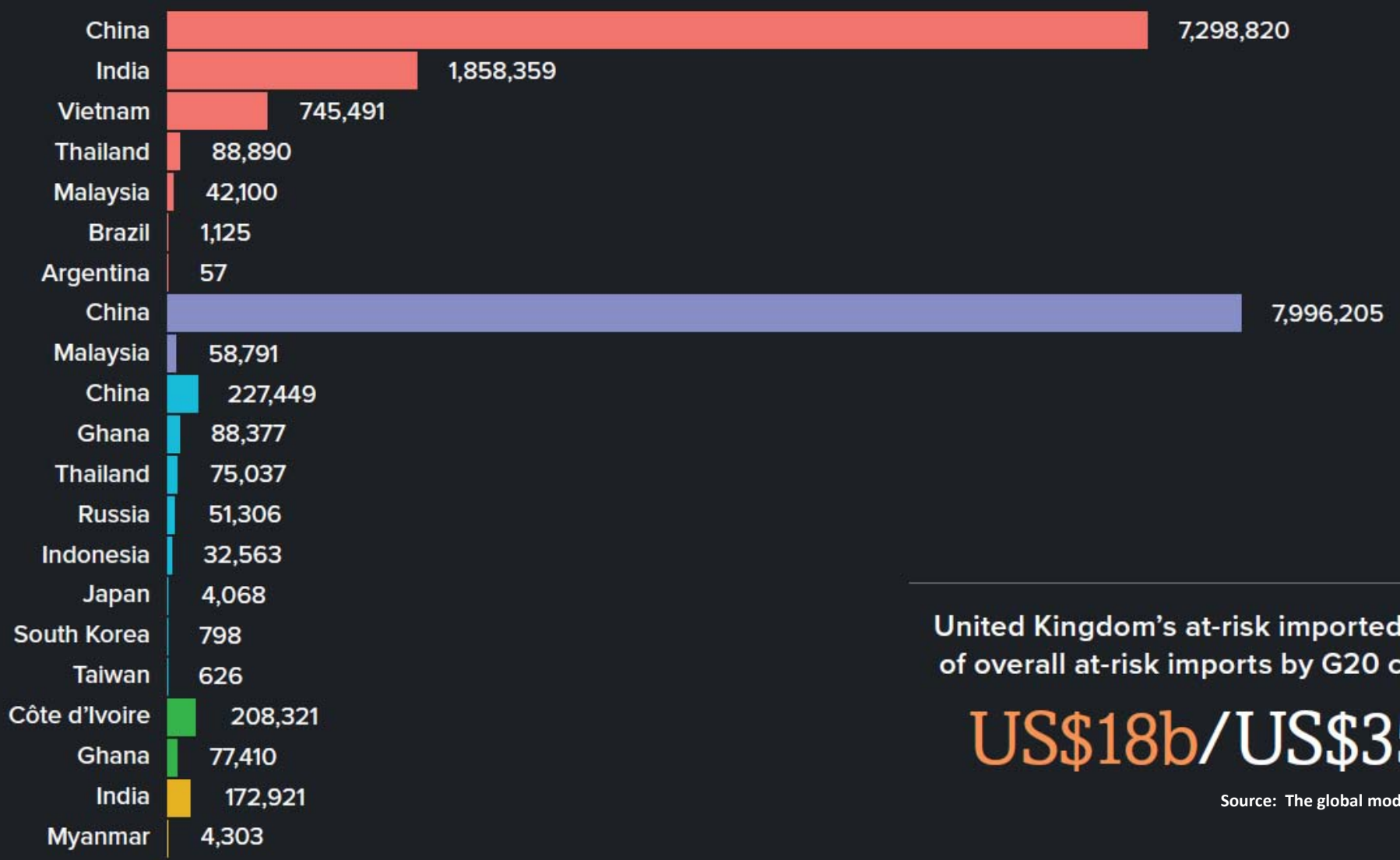
COCOA



RICE



Breakdown of at-risk imported products by source country (annually, in thousands of US\$)*^



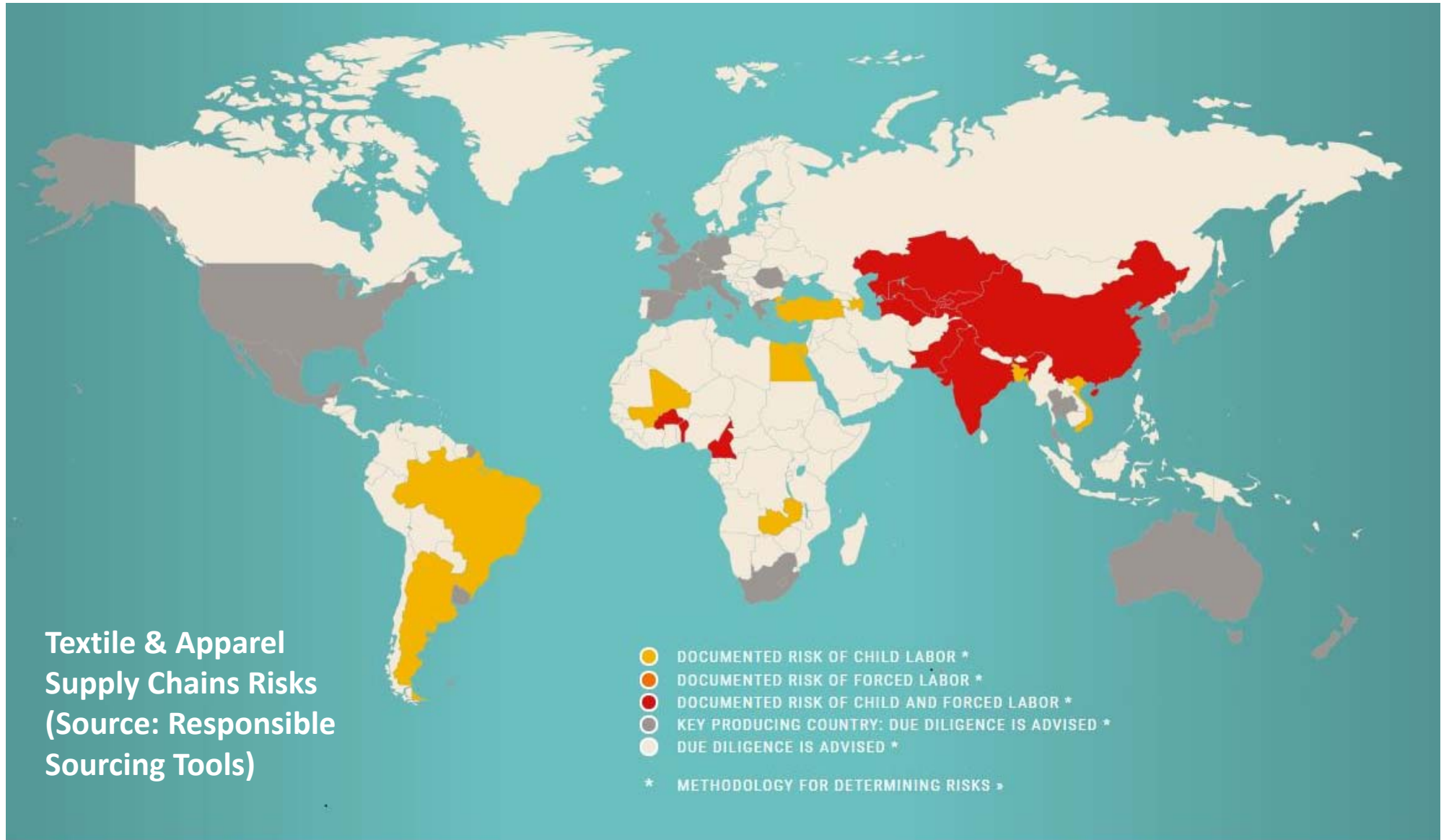
United Kingdom's at-risk imported products, of overall at-risk imports by G20 countries.^

US\$18b / US\$354b

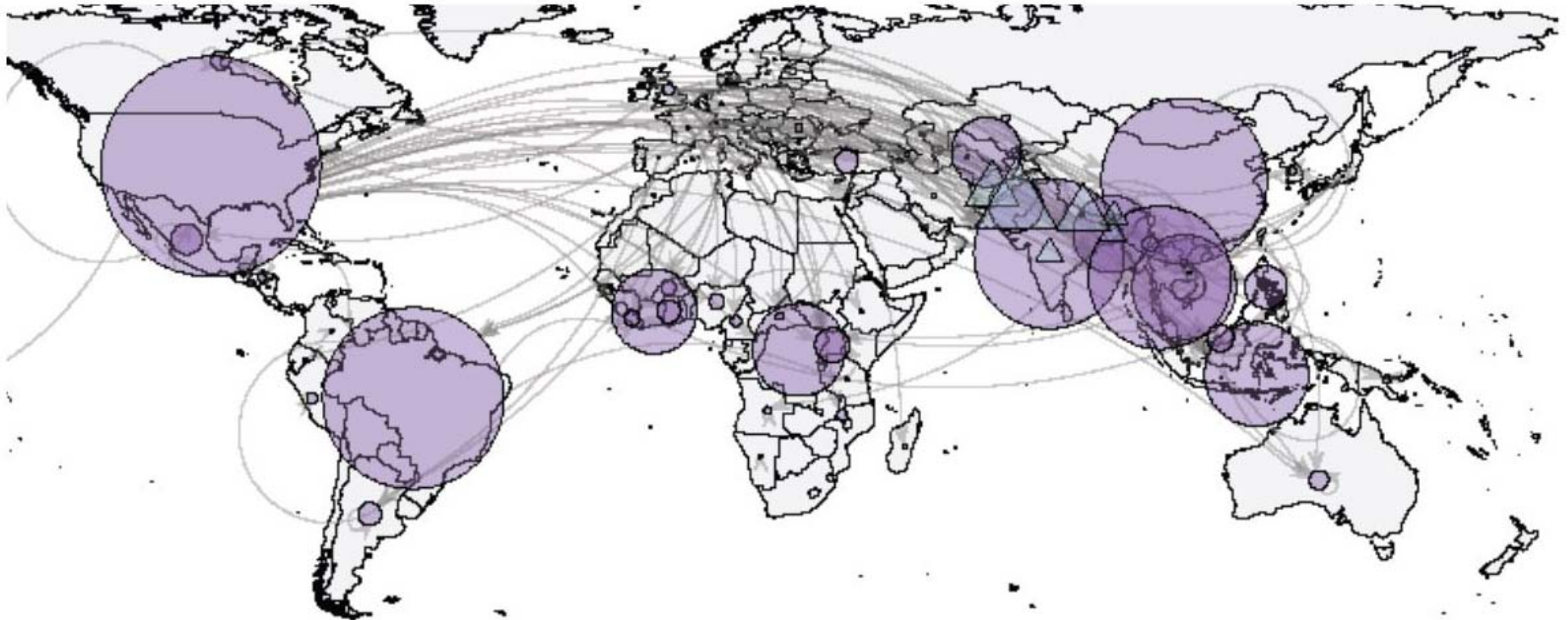
Source: The global modern slavery index

**Textile & Apparel
Supply Chains Risks
(Source: Responsible
Sourcing Tools)**

- DOCUMENTED RISK OF CHILD LABOR *
 - DOCUMENTED RISK OF FORCED LABOR *
 - DOCUMENTED RISK OF CHILD AND FORCED LABOR *
 - KEY PRODUCING COUNTRY: DUE DILIGENCE IS ADVISED *
 - DUE DILIGENCE IS ADVISED *
- * METHODOLOGY FOR DETERMINING RISKS >



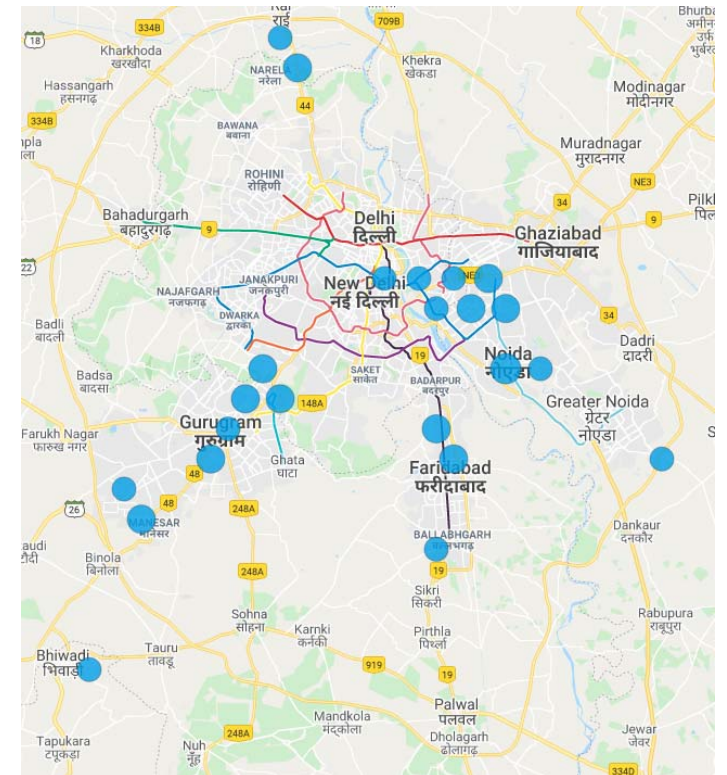
Child Labour RepRisk News Count (Circles) and National Survey Data (Triangles)



Sectors vulnerable to forced labour in India are “Food & Beverages”, “Personal & Household Goods”, and “Retail”.

Business & Human Rights RC: Clothing & Textiles

- 273 Global Brands
- 108 report to the UK Modern Slavery Act
- At least 51 source from Delhi
- 73 listed in stock exchanges and 6 in FTSE 100
- The map shows supply chains facilities near New Delhi connected with 5 brands whom we have conversations.



Source: Open Apparel Registry



Textile migrant worker hub

Kapas Hera: Delhi-Gurugram border

- Kapas Hera is a semi-slum settlement on the south-west edge of Delhi, bordering Gurugram in the neighbouring state of Haryana
- Open drains line the street with a mixture of grey water and sewage water
- It is comprised primarily of migrant workers from Bihar, UP and also West Bengal
- Apparel work would appear to be the largest employer
- The largest share of these workers are engaged in (mainly export factories) in nearby Gurgaon (Udyog Vihar)- most male but a sizeable number are female; smaller shares of workers are occupied in (i) informal factories within Kapas Hera (3-30 workers) – largely male and (ii) homebased work – all, or almost all, female
- Nari Shakti Manch (NSM) estimated that there may be 1000 homeworkers in Kapas Hera. According to NSM, the migrant families have very focused motives. They make several compromises with their life and living, so that they can earn and save a good amount of money to fulfil the particular motive(s), it could be constructing a house back in their village, higher education for children, marriage of girls etc. etc. Many prefer to work overtime (10 to 12 hours a day) to earn some extra money.

Why Kapas Hera?

Workers are not presently organized: if a solution works for these workers, there is a higher probability of it working for others

Global and domestic value chains are active in the area

Apart from homeworkers, the area hosts other informal workers who it will also be important to consult





Thank you!

