

coriolis[®]



Measuring value chains: a research agenda

Rebecca Harding
CEO, Coriolis Technologies

Defining the problem



Poor data

- Inconsistent, lagged and missing
- No reflection of how trade has changed

Not linked to companies

- Can link HS codes but not to businesses
- Can't identify supply chains

Value chains are global

- Gravity or TiVA models partial
- Bilateral flows imprecise

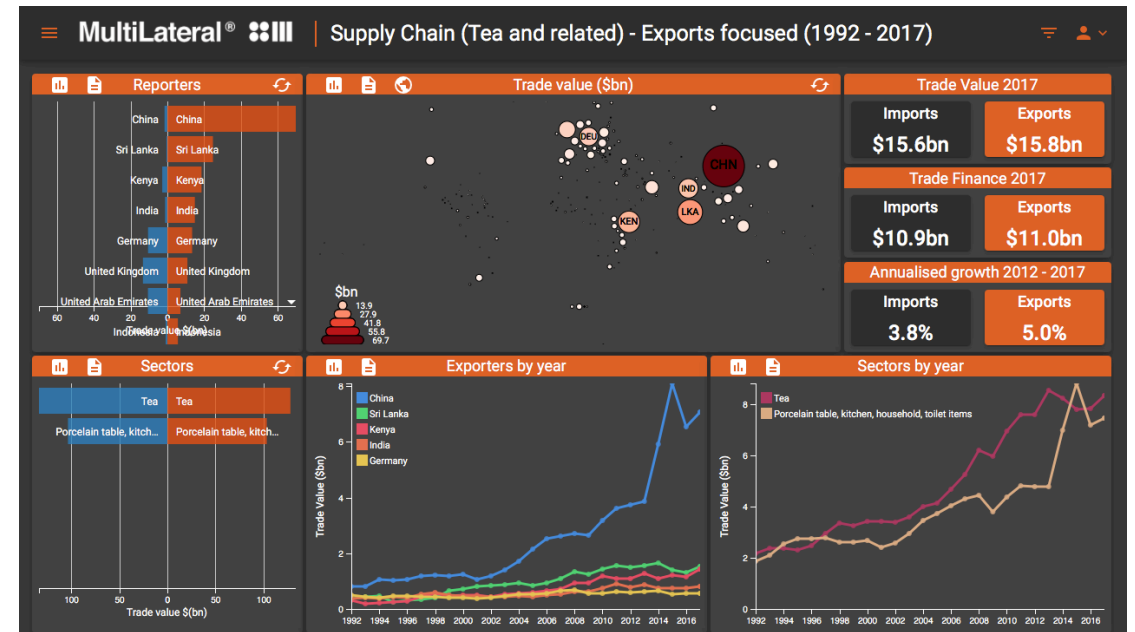
Introducing MultiLateral



- MultiLateral is the technology that joins the trade data dots
- Funding from IUK in partnership with NIESR to develop software that brings disparate and complex datasets together to analyse supply chains, trade finance and services/digital trade
- The technology will:
 - Find supply chains
 - Visualise supply chains and thereby increase supply chain transparency
 - Assess value added and contribute to policy debates
 - Identify transactions and logistics/freight flows
 - Link the data to economic performance

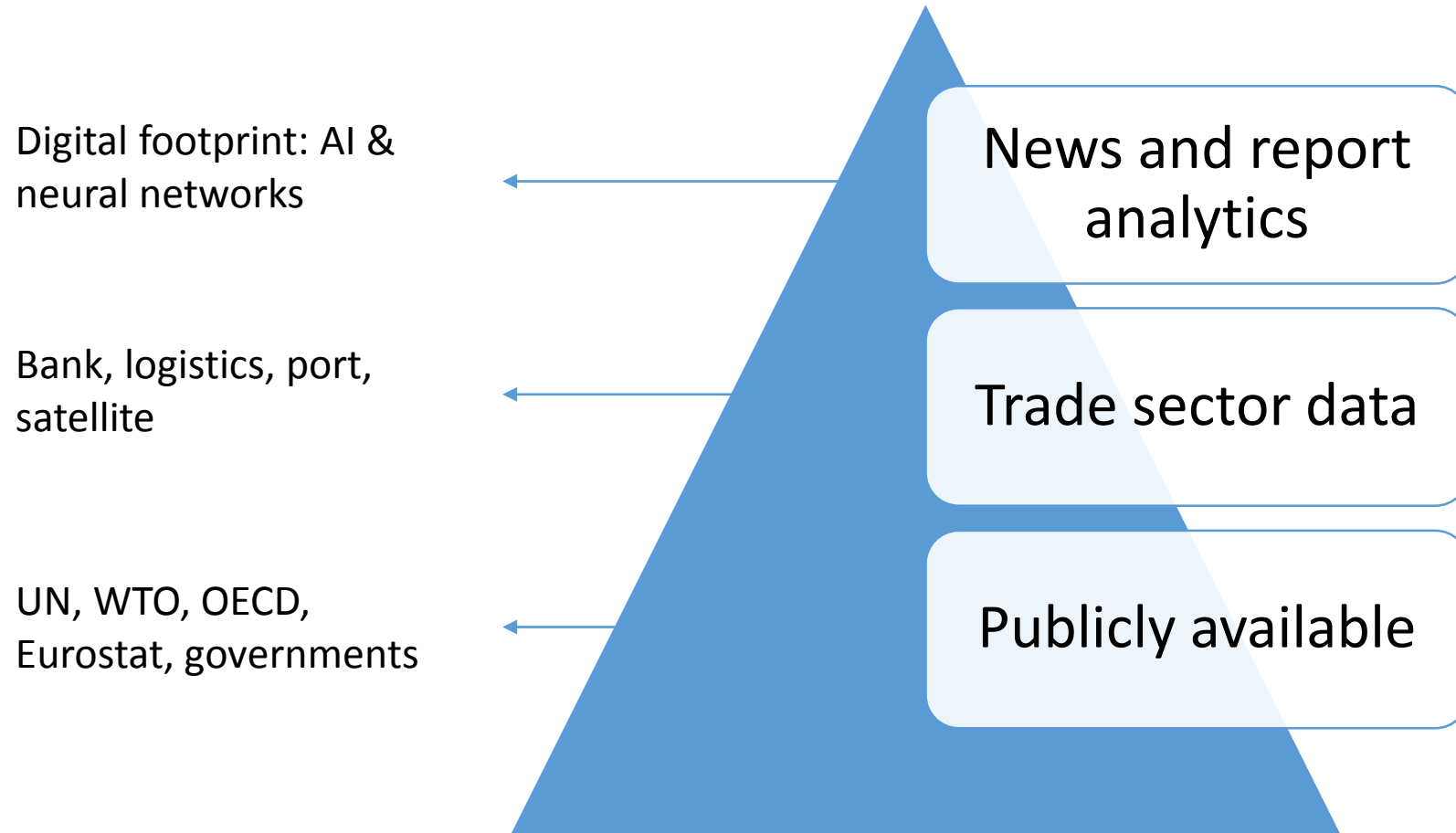
The technology

- Cloud based
- Data warehouse to API as delivery mechanism
- Front end, 'on the fly' calculations
- Graphic database to show supply chain links
- AI/machine learning to show value chains



The data sources

coriolis[®]



What to expect and when



By end of month

- Full trade analytics platform:
 - To HS 6 digit
 - Monthly & annual
 - Supply chain, strategic trade, sector and country/region lens
 - Trade analytics (RCA, FKI, RMA etc)
 - Trade finance
 - Projections

Over next 12 months

- Integration of:
 - Company & supply/value chain links
 - Logistics data
 - Satellite data
 - Bank data
 - Political risk sensitivities
- What If
- Input-output tables

Working with NIESR/you



- This is a challenging project over a short space of time
- Feedback around usability is key
- Feedback around data quality and system performance is key
- Testing the results against key themes in the literature and academic debate is key
- Understanding digital and services trade and its role in economic growth is vital
- These are challenging times for trade – let's make MultiLateral Thinking the way forward

coriolis[®]



Thank-you