

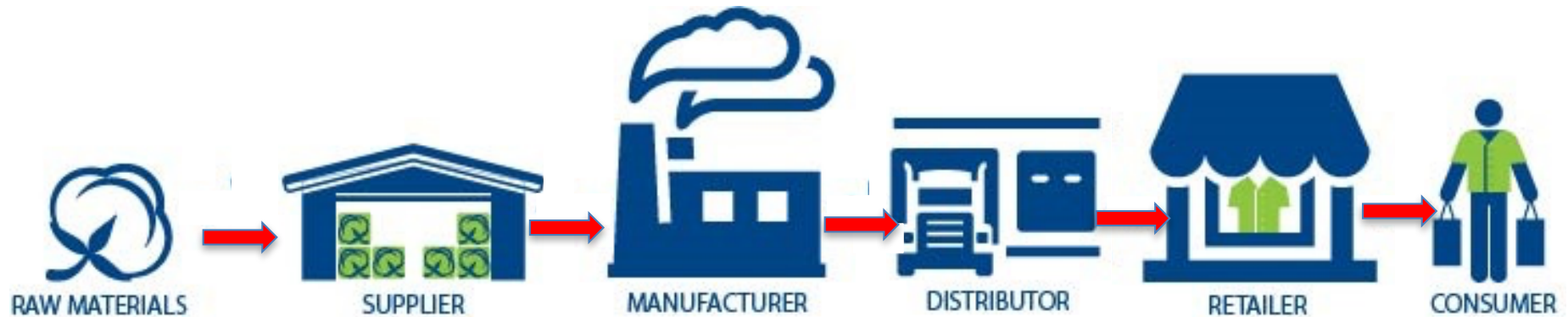
**IL SALONE DEI PAGAMENTI
*PAYVOLUTION***

*Supply Chain
BANK (R) EVOLUTION
22 novembre 2017*

Maria Elena Nenni

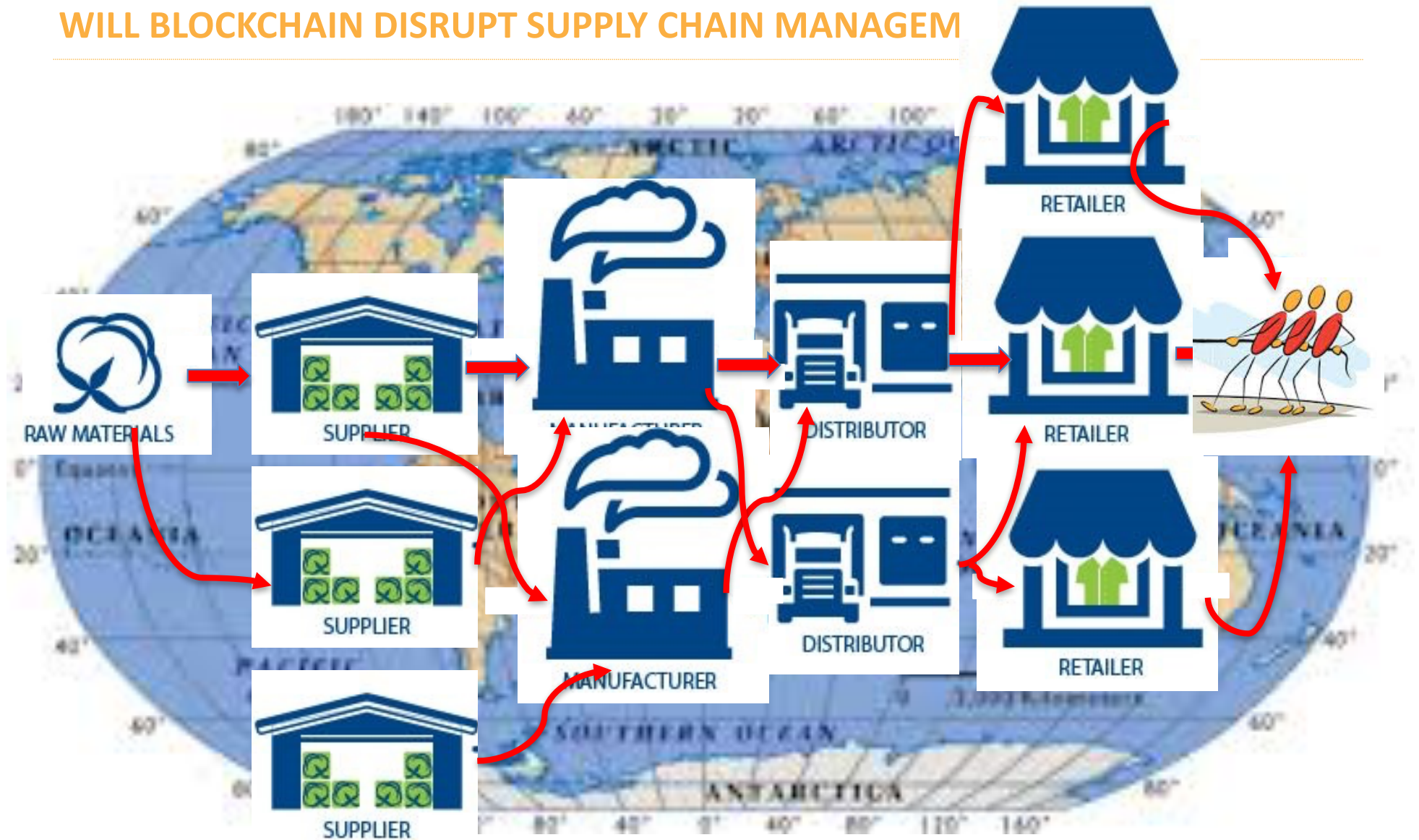


WILL BLOCKCHAIN DISRUPT SUPPLY CHAIN MANAGEMENT?



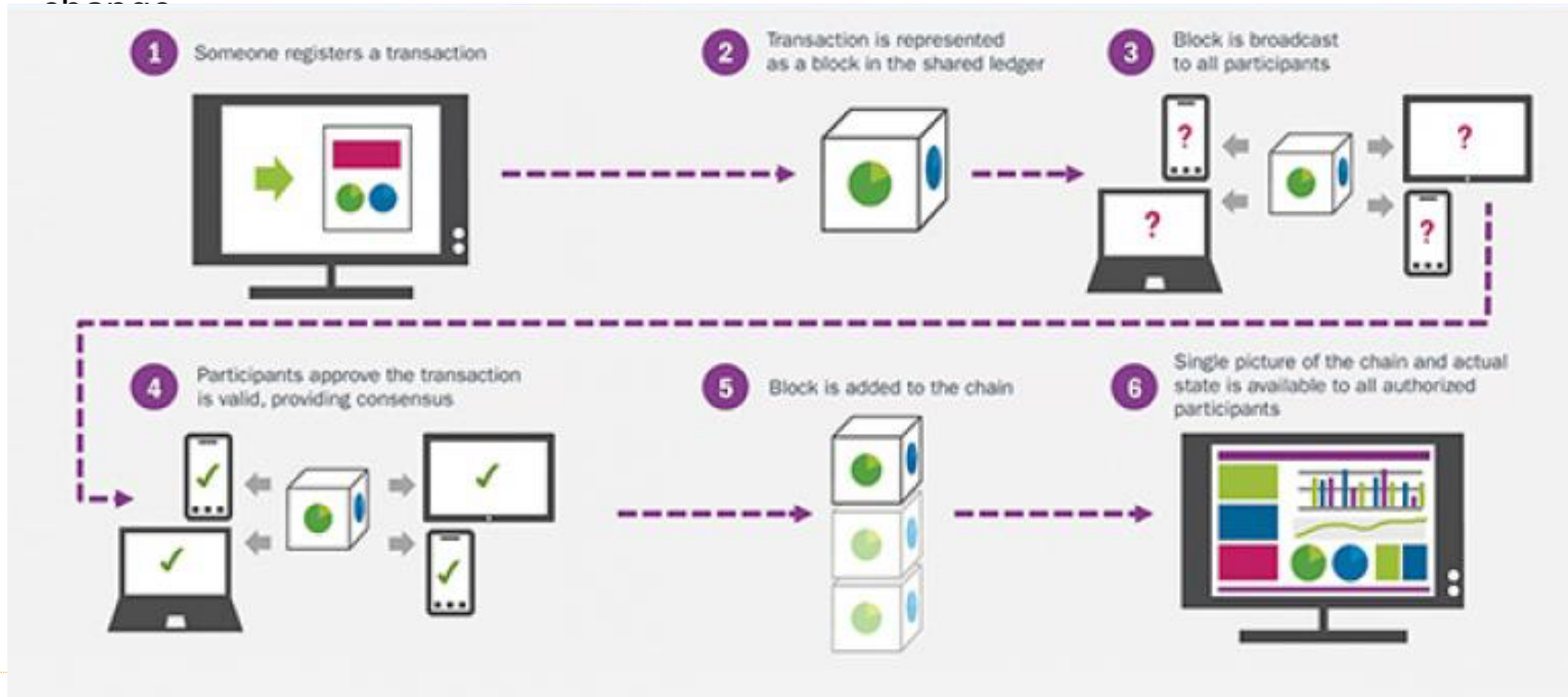
“A supply chain is the network of organizations that are involved, through upstream and downstream linkages, in the different processes and activities that produce value in the form of products and services delivered to the ultimate consumer” (Christopher, 1992).

WILL BLOCKCHAIN DISRUPT SUPPLY CHAIN MANAGEMENT



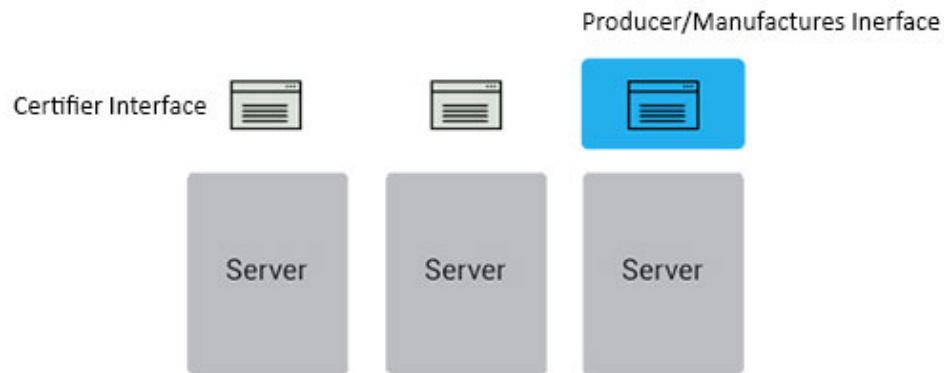
WHAT IS BLOCKCHAIN?

- ✓ It is a transaction ledger
- ✓ Architected to be transparent, resilient and trusted
- ✓ Based on peer-2-peer principles
- ✓ Allow the smart contracts (e.g. Bitcoin wallet) to register transactions
- ✓ In order ledger as each block uses the hash of the previous block in the header. Changing one block therefore would invalidate all following blocks as the hash would change



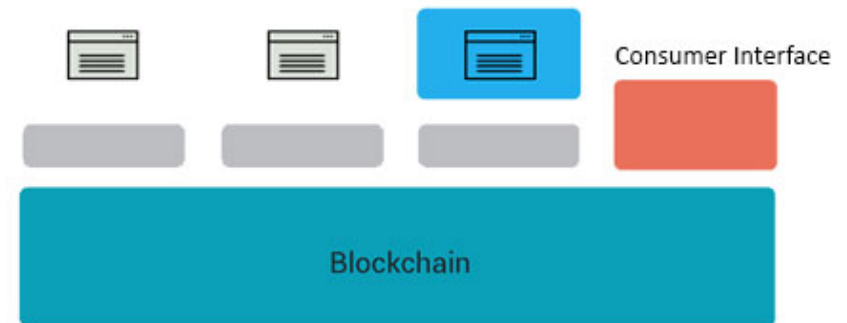
TODAY VERSUS THE FUTURE

TODAY



DATA SITS IN SILOS WITH LIMITED INTEROPERABILITY

THE FUTURE



DATA SITS IN A SECURE, AUDITABLE SHARED DATA LAYER

HOW IS A SUPPLY CHAIN REQUIRED TO BE IN THIS SCENARIO?



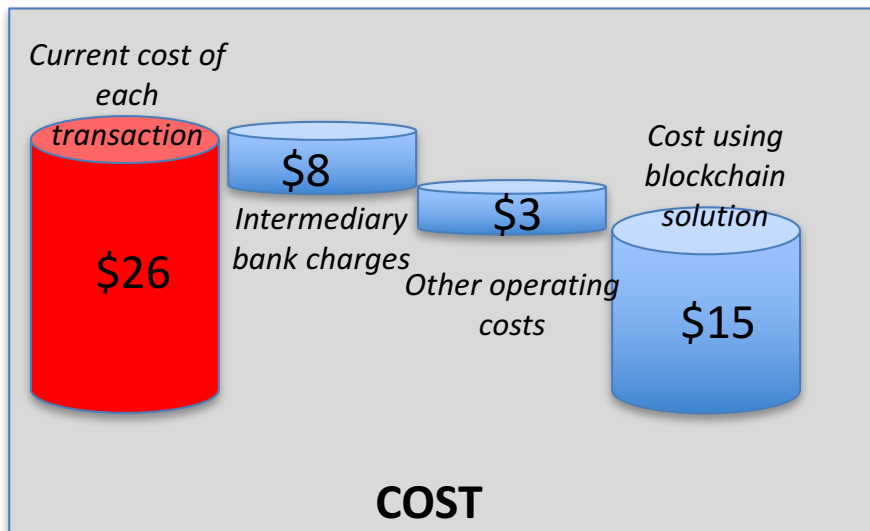
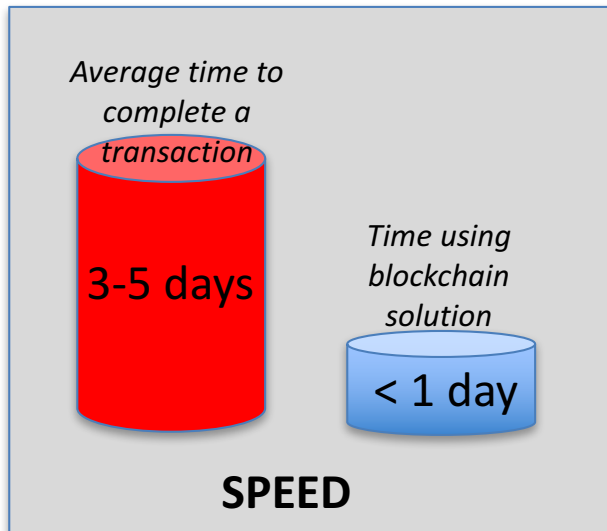
TRUSTED INFORMATION IS NEEDED MORE THAN EVER !

IBM AND MAERSK DEMO: CROSS-BORDER SUPPLY CHAIN SOLUTION ON BLOCKCHAIN

<https://www.youtube.com/watch?v=tdhpYQCWnCw>



CROSS-BORDER PAYMENTS



Source: McKinsey, 2016