

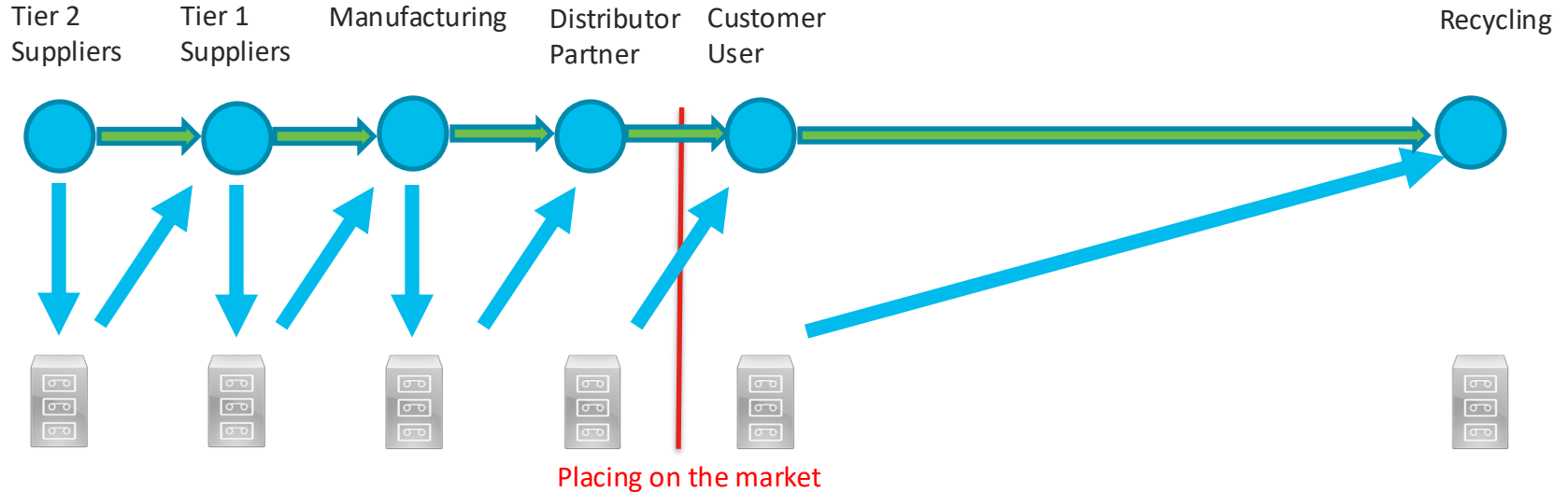


Digital Product Passport: challenges and opportunities for ICT infrastructure equipment

Klaus Verschuere

12 december 2024

Standardised way to share data across the entire value chain



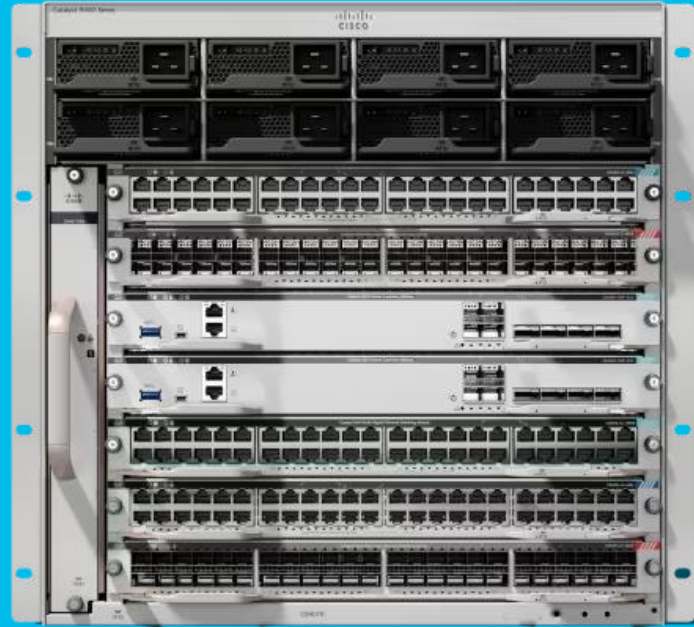
Information needs to be accurate and up to date:

Recycled content, carbon footprint, CRM's, SoC, FMD, energy use

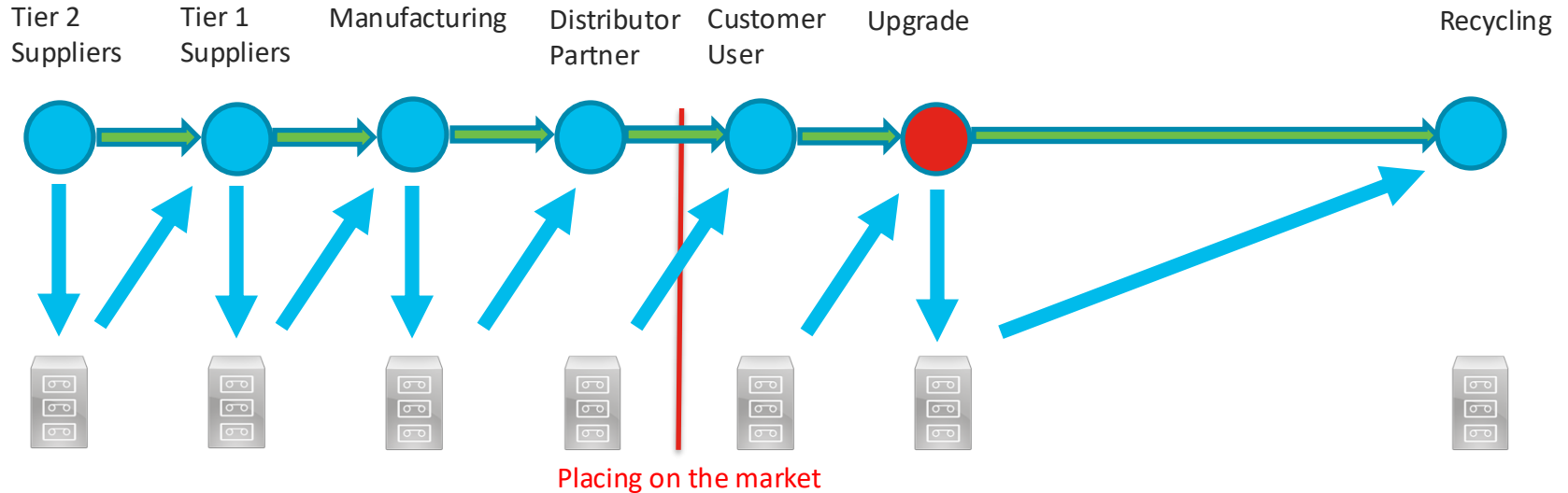
- how to deal with second sourcing ?
- market surveillance at the moment of placing on the market

*In theory,
there is no difference
between theory and
practice*

In practice however...



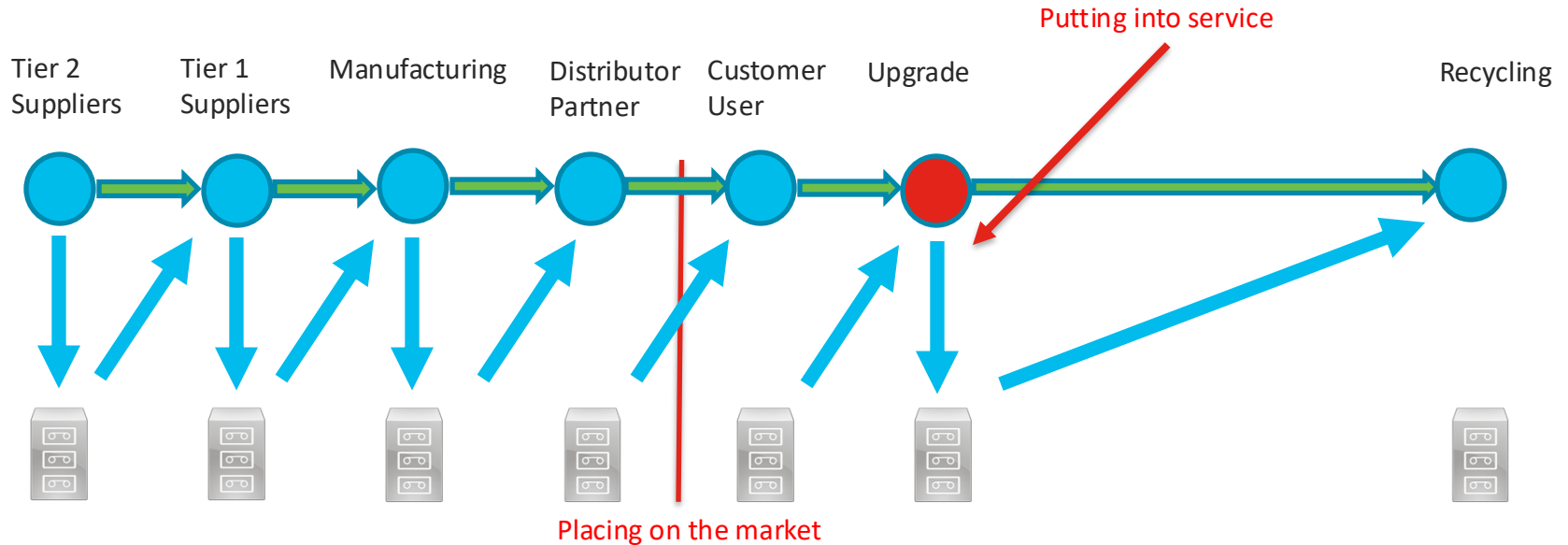
Upgrade



Information needs to be accurate and up to date:

- Granularity – DPP per item (serial number)

Upgrade

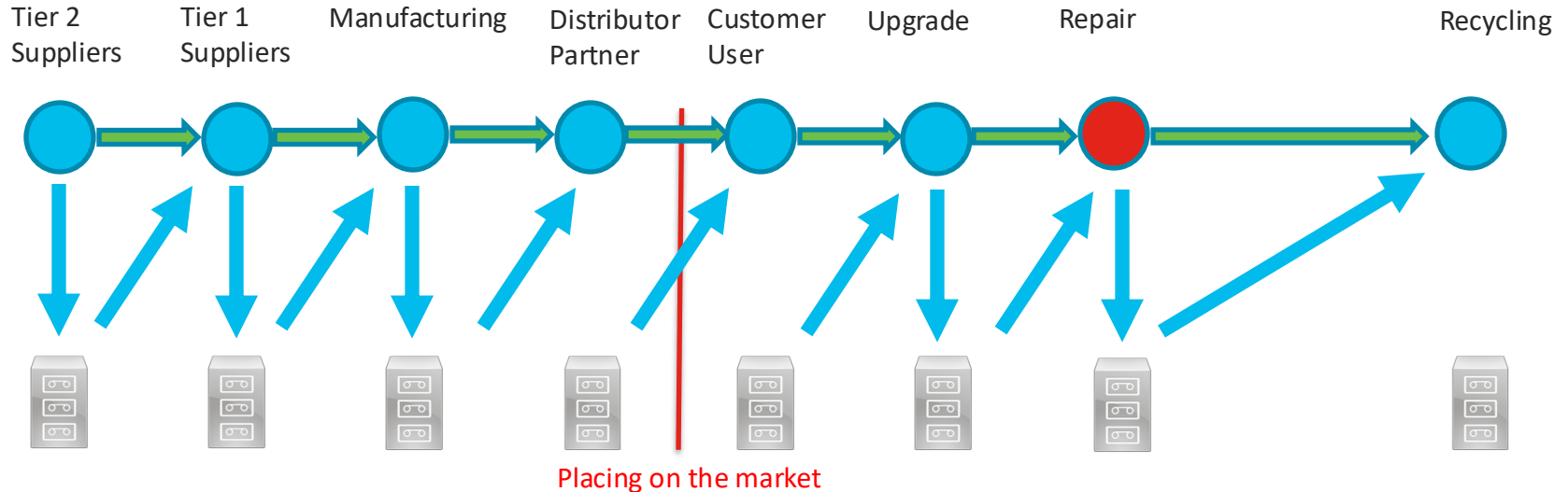


Information needs to be accurate and up to date:

- Granularity – DPP per item (serial number)
- Energy efficiency needs to be updated when upgrading – significant change to DPP data

Who's interested in this data – Use case?

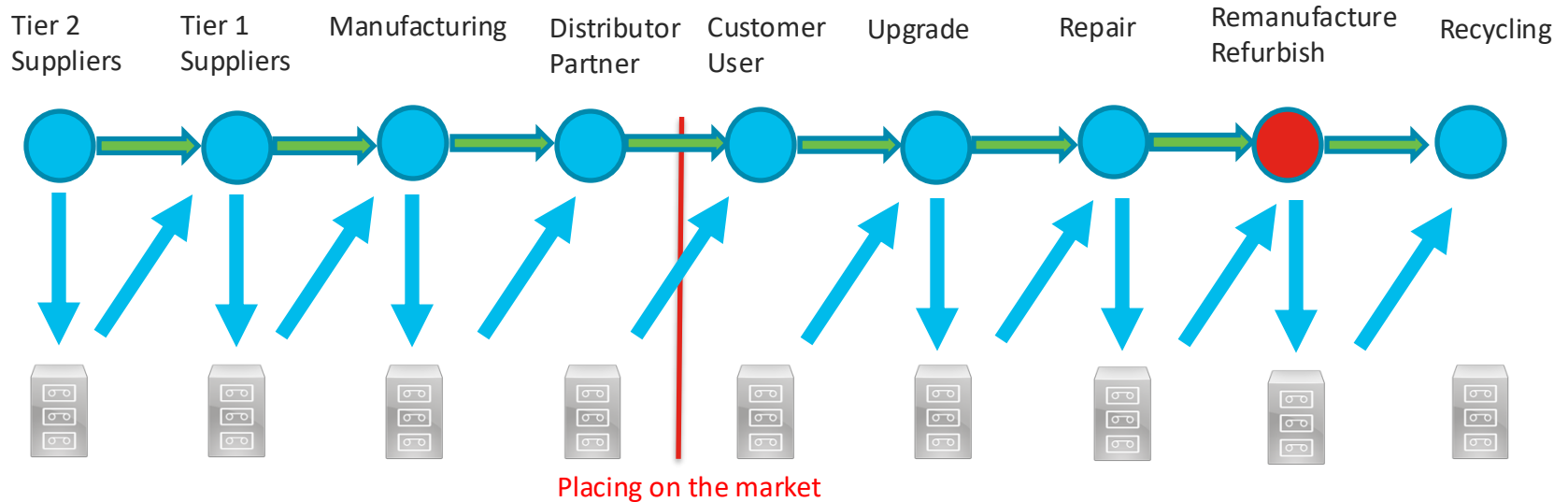
Repair



Information needs to be accurate and up to date:

- CRM, recycled content information needs to update when repair happens significant change – substantial modification ?
- How deep does the repair go? fan, PSU, interface, motor – resistor, capacitor, wire

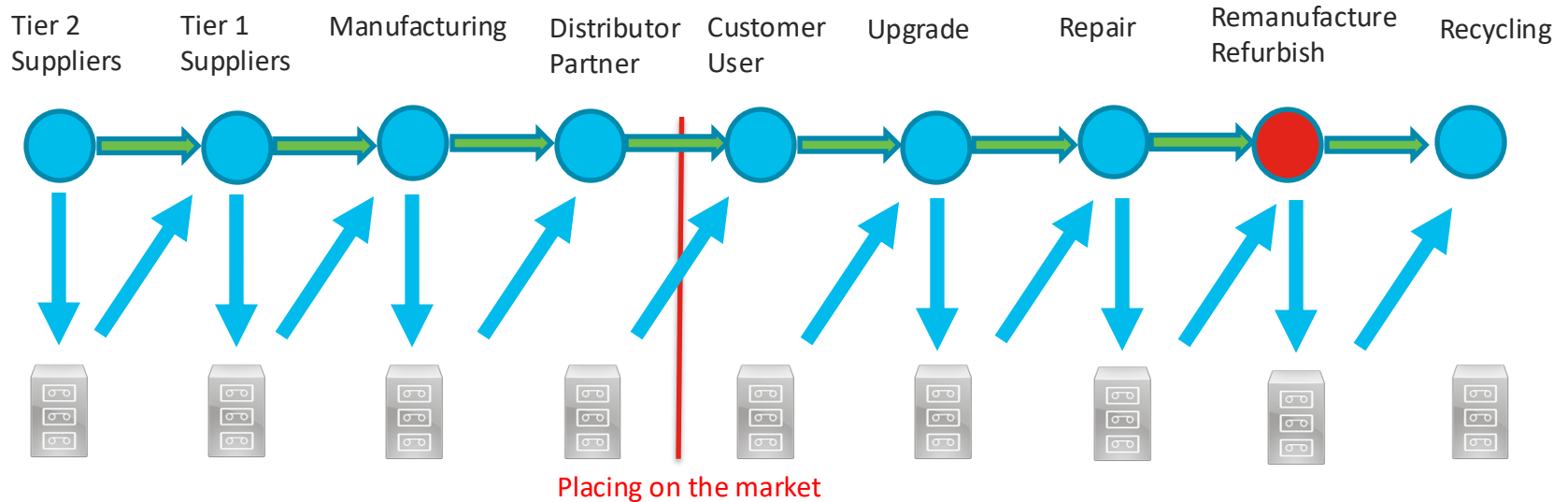
Refurbish



Information needs to be accurate and up to date:

- Carbon footprint improves dramatically when refurbishment/ reman happens

Refurbish



Information needs to be accurate and up to date:

- Carbon footprint improves dramatically when refurbishment/ reman happens
- Who will verify that update of DPP happens? Market surveillance.

DPP value for ICT infrastructure equipment

- Reusability
- Upgradability
- Durability / reliability
- Reparability score
- Sequence of dismantling steps
- Tools needed for repair
- Technologies needed for repair
- Information sheet on compliance performance
- Install, use, maintain and repair information for consumers
- Disassembly, recycling, or disposal at end-of-life information for treatment facilities

STATIC attributes

DPP challenges for ICT infrastructure equipment

- Energy efficiency / use
- Environmental Impact
 - Carbon Footprint
 - LCA
- Materials content
 - Recycled content
 - Critical Raw Materials
 - Hazardous Materials
- ...

DYNAMIC attributes

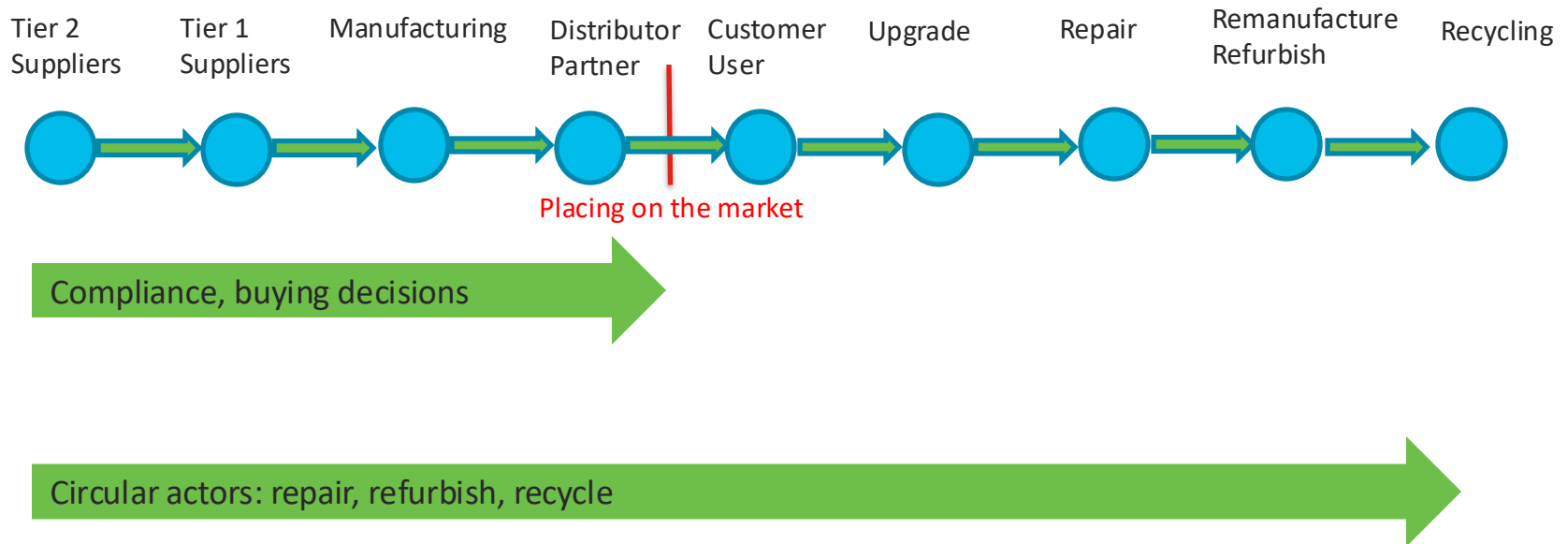
DPP challenges for ICT infrastructure equipment

- Energy efficiency / use
- Environmental Impact
 - Carbon Footprint
 - LCA
- Materials content
 - Recycled content
 - Critical Raw Materials
 - Hazardous Materials
- ...
 - Is it relevant to keep updating all information?
 - a. Is there a need to keep info up-to-date which is not relevant anymore ?
 - b. How to deal with relevant info which is not updated ?

DYNAMIC attributes

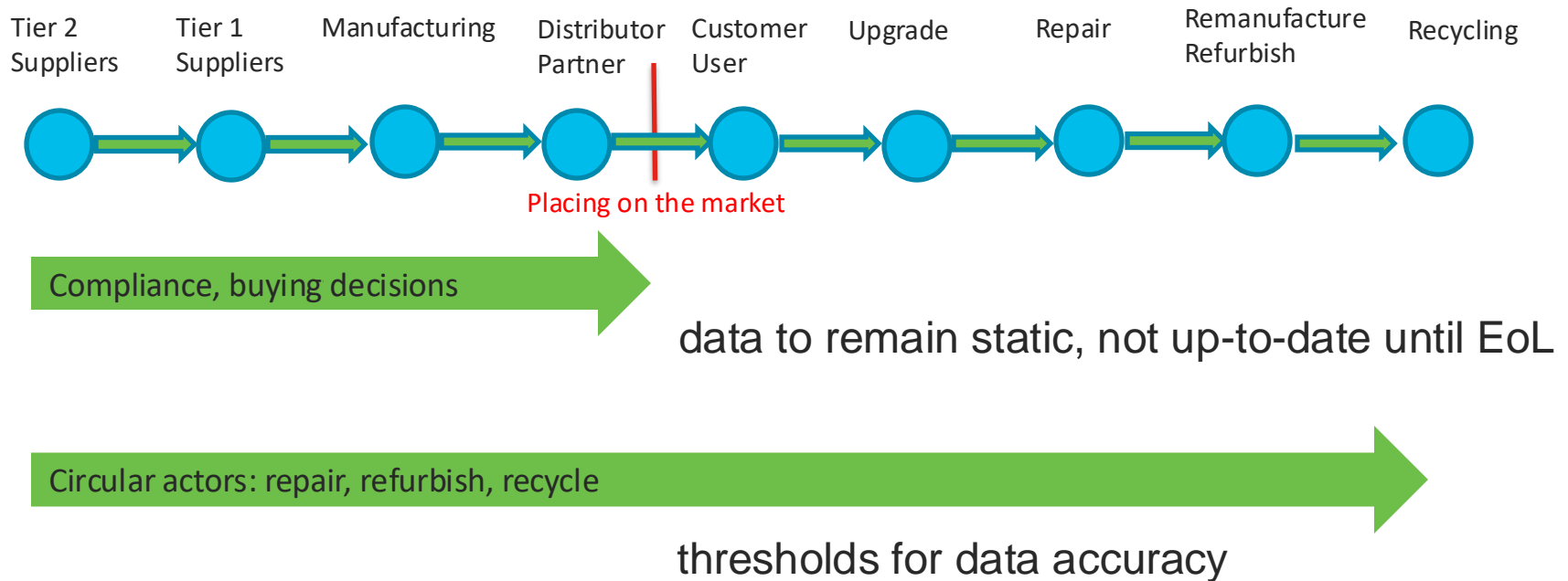
Proposals for Dynamic Attributes

Who's the interested party, when is data useful ?



Proposals for Dynamic Attributes

Who's the interested party, when is data useful ?



Proposals for Dynamic Attributes

- Energy use
- Environmental Impact
 - Carbon Footprint
 - LCA
- Materials content
 - Recycled content
 - Critical Raw Materials
 - Hazardous Materials
- ...

a. Is there a need to keep info up-to-date which is not relevant anymore ?
Data to remain static, not up-to-date until EoL

b. How to deal with relevant info which is not updated ?
Thresholds for data accuracy

Q & A time

