Enabling a circular data centre

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ASSET LIFECYCLE MANAGEMENT

Today’s expert

Marcus Jacob
Solution Development Executive
Asset Lifecycle Management
Iron Mountain

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Drive sustainability and boost CSR metrics with responsible IT asset disposal in your data centre

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Putting the e-waste problem into perspective

E-waste is the fastest growing type of waste globally, and the growth of e-waste generation is outpacing the formal collection and recycling by almost a **factor of 5**.[1]

Currently e-waste recycling rates are ~22%. They are expected to ***DROP*** to 20% by 2030.[1]

Recycling metals from e-waste, instead of extracting new raw materials, avoided approximately ***52 million metric tons of planet-warming emissions*** in 2022.[1] Think of the avoided emissions if more than 22% of e-waste were recycled.

Sources: 1.)The Global E-Waste Monitor 2024

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Data centre equipment supply chain

A linear path from raw material extraction to equipment usage

Stage	Supply Chain
#1	Material extraction & conversion
#2	Parts & component manufacturing
#3	Server design & manufacture
#4	Retail wholesale distribution
#5	Configuration & deployment
#6	Asset usage

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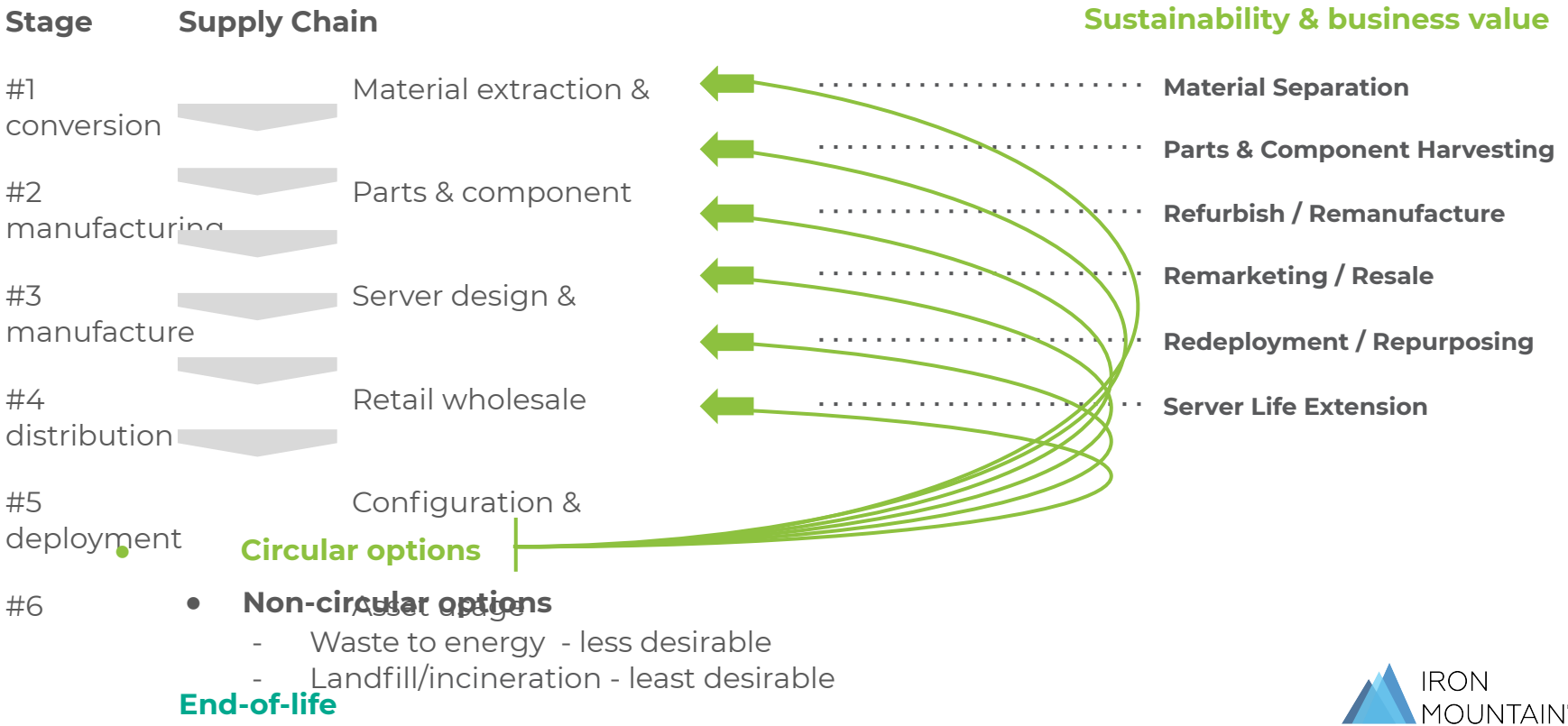
A circular economy approach

Deliver secure, sustainable & economic benefits



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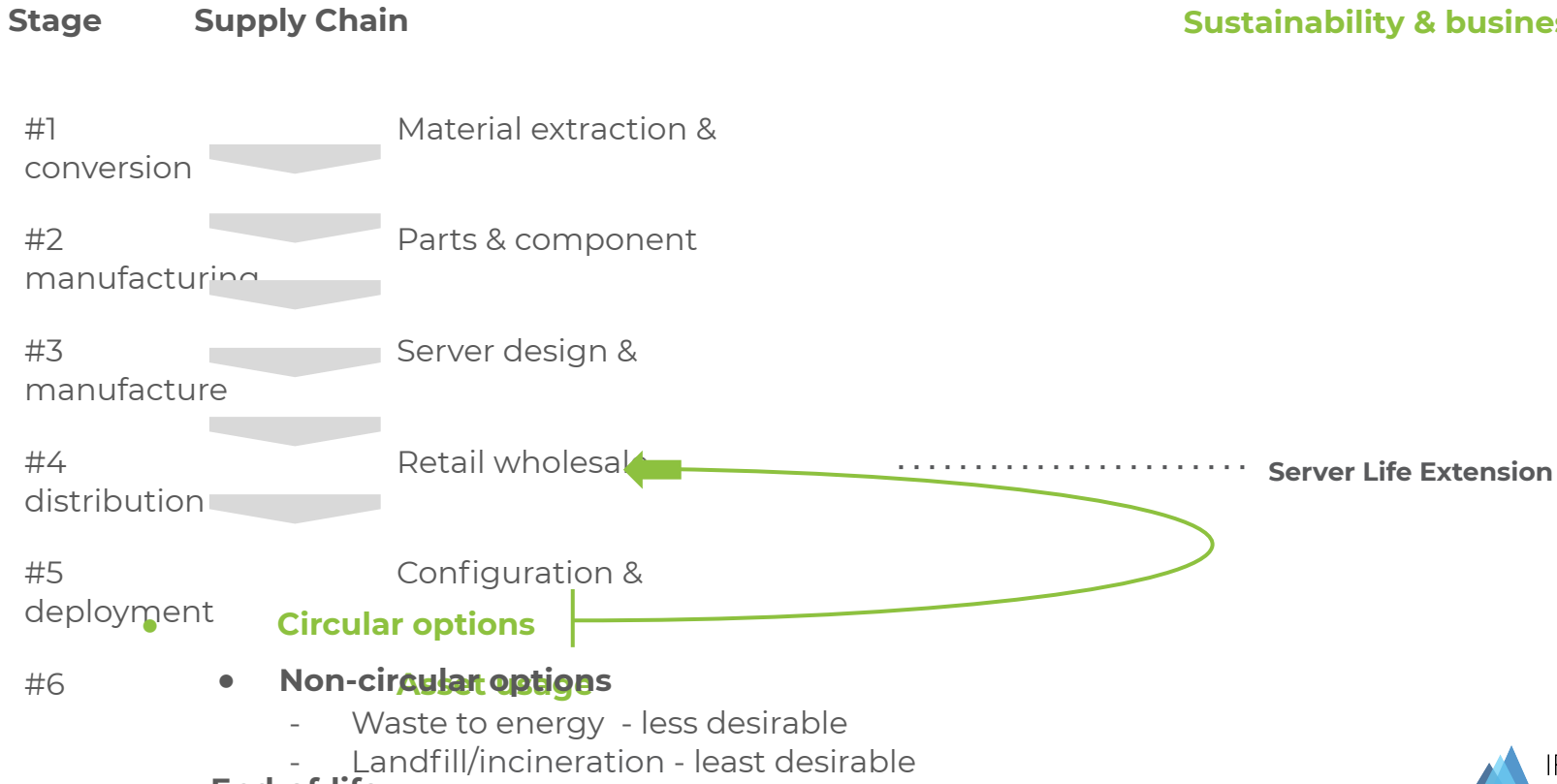
Support circular IT excellence across each stage



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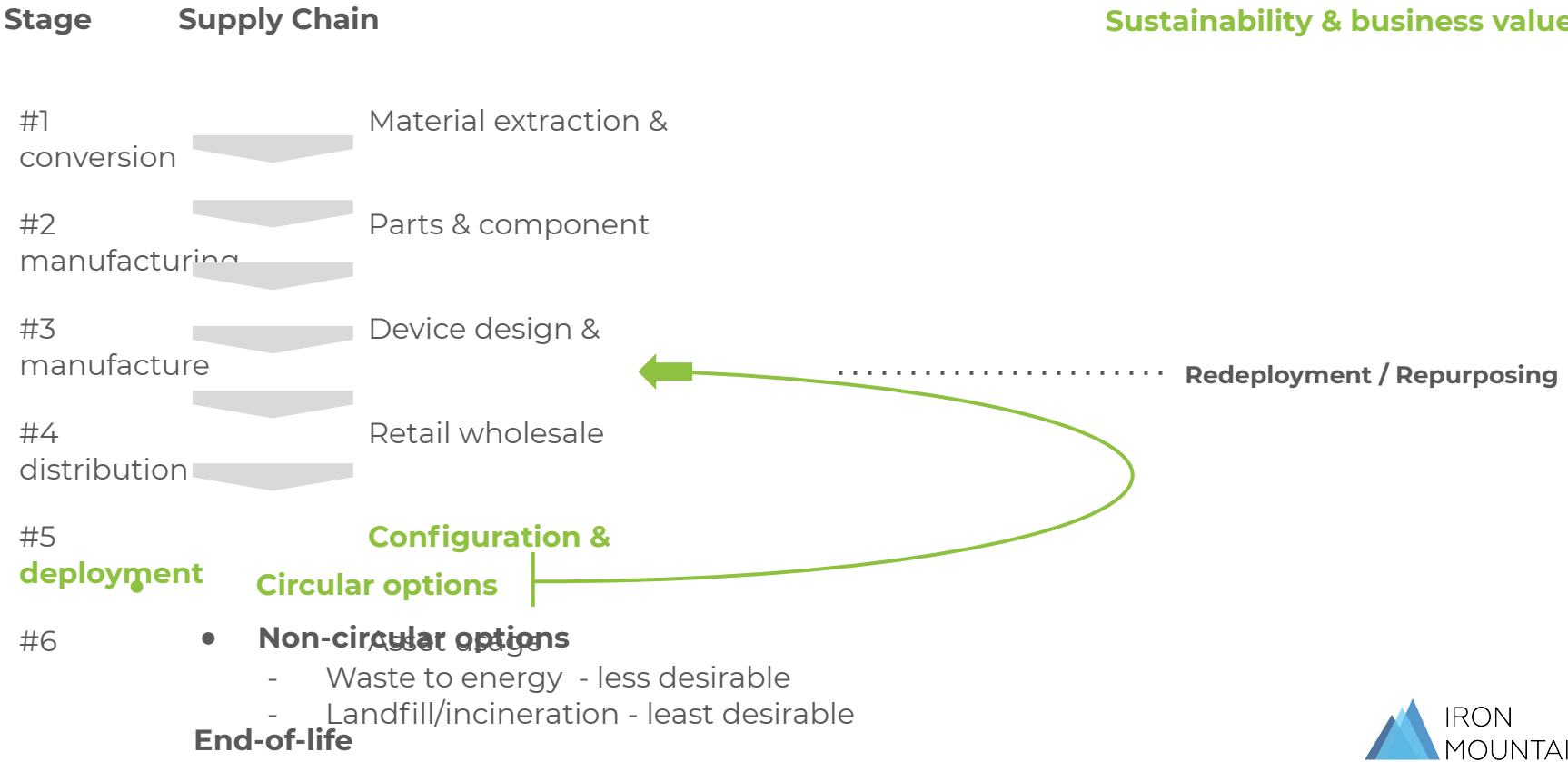

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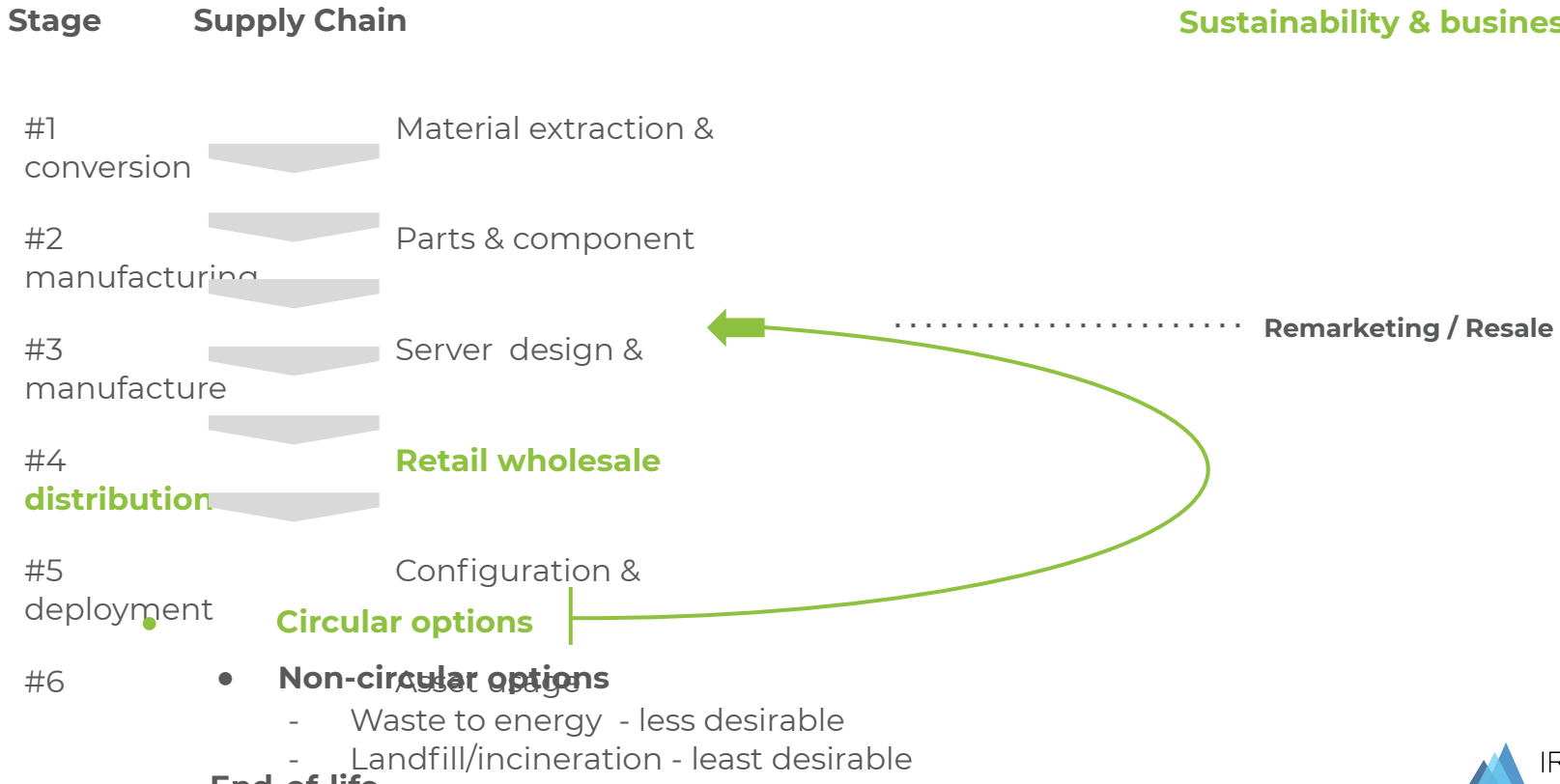

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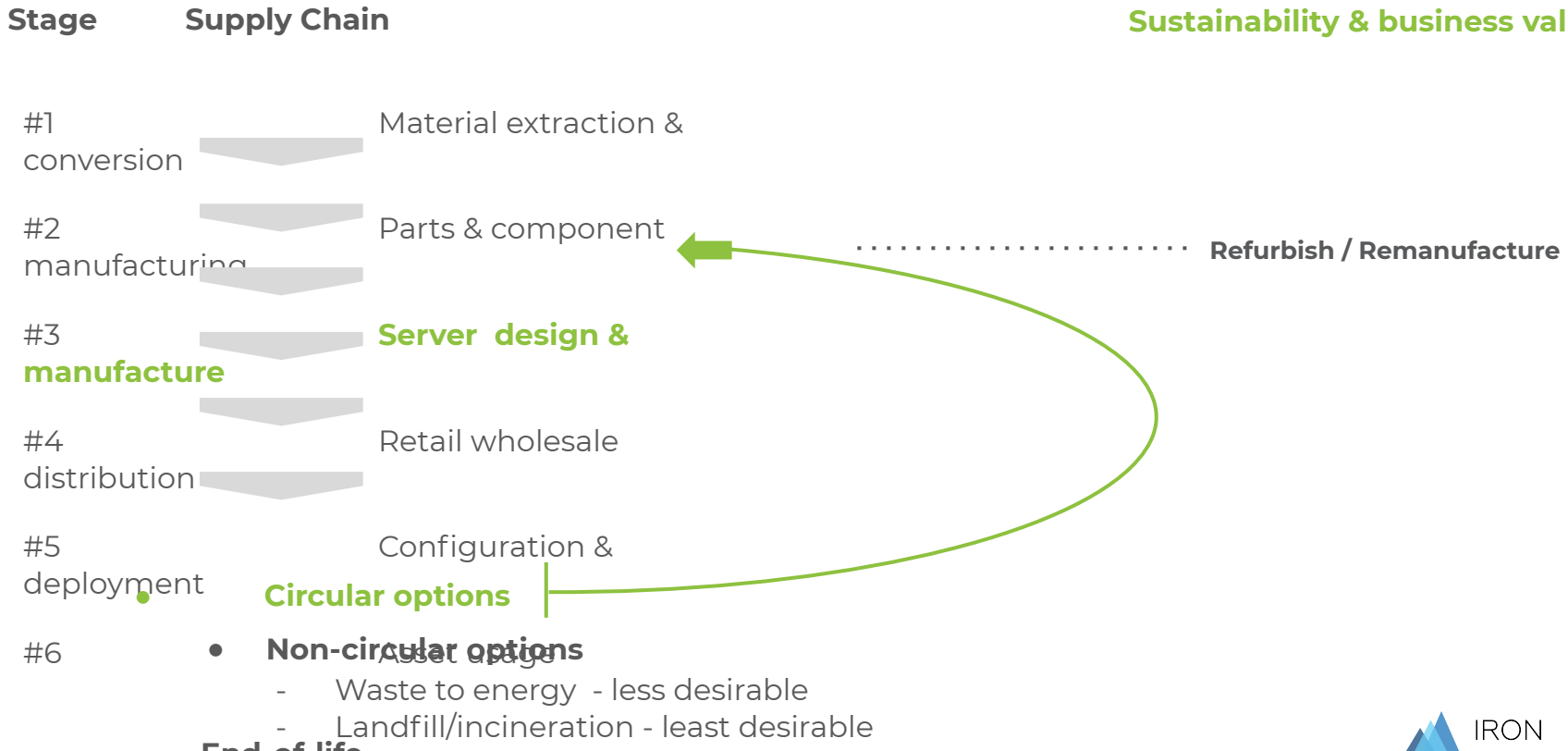

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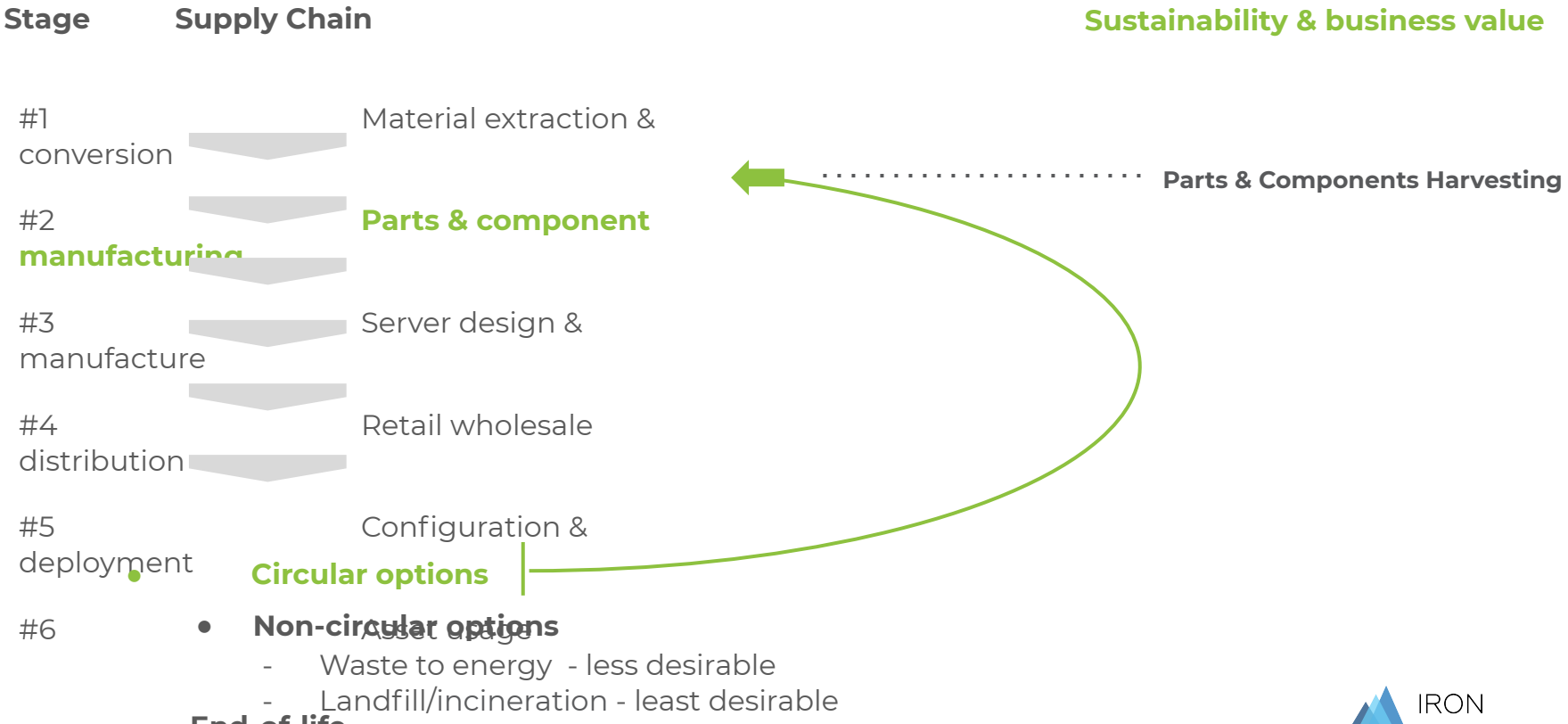

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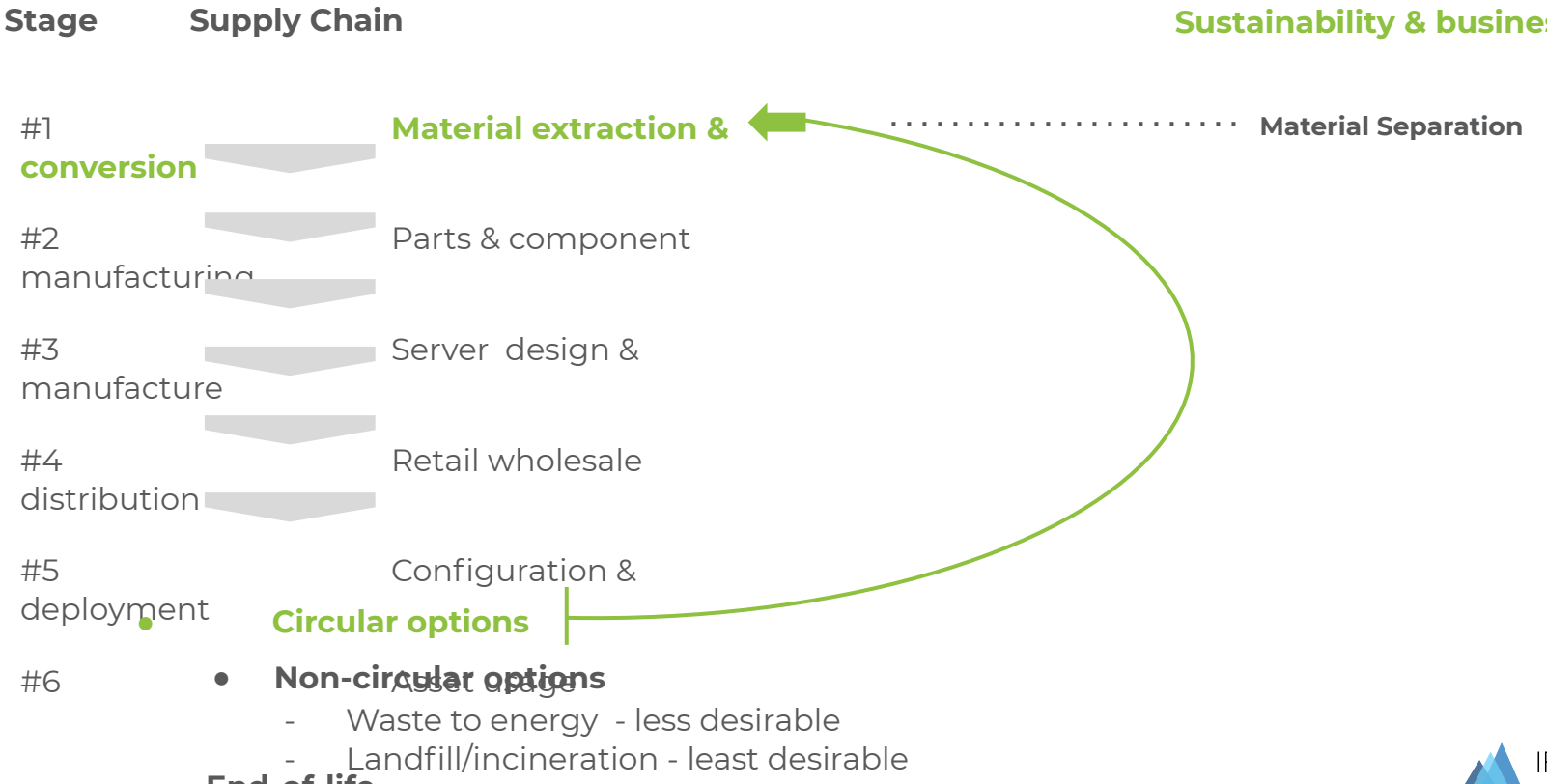

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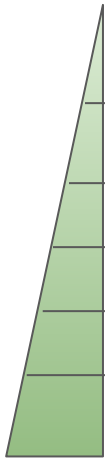
A circular economy approach

Deliver secure, sustainable & economic benefits

Stage	Supply Chain
#1 conversion	Material extraction &
#2 manufacturing	Parts & component
#3 manufacture	Device design &
#4 distribution	Retail wholesale
#5 deployment	Configuration &
#6	Asset usage



Benefit level

Sustainability & business value

- **Material Separation**
- **Parts & Component Harvesting**
- **Refurbish / Remanufacture**
- **Remarketing / Resale**
- **Redeployment / Repurposing**
- **Asset Life Extension**

Circular options

- **Non-circular options**
  - Waste to energy - less desirable
  - Landfill/incineration - least desirable

End-of-life

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Thank you

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