



Energy and Resource Savings in Road Equipment

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We need to...

...understand the road construction value chain

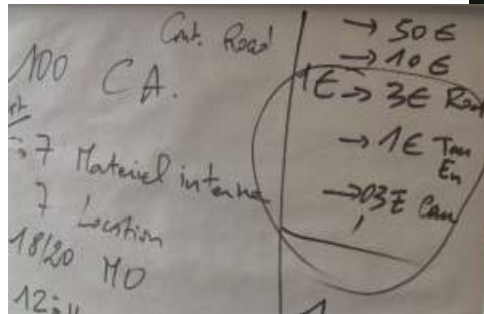
...help minimize the environmental footprint

Challenges

Goals

Solutions

The Road Construction Value Chain



The Road Construction Value Chain



- Framework varies by country and level of government
- Varying compensation for efforts to reduce environmental footprint
- Contractors' pain points: Process inefficiencies & lack of information
- Value chain trend: Risk is shifting from governments to contractors



Challenges

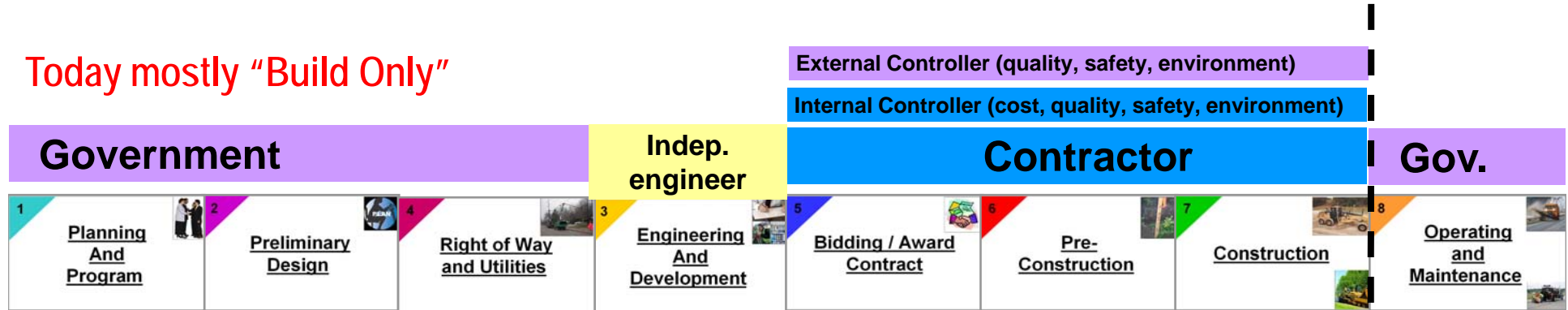
Goals

Solutions

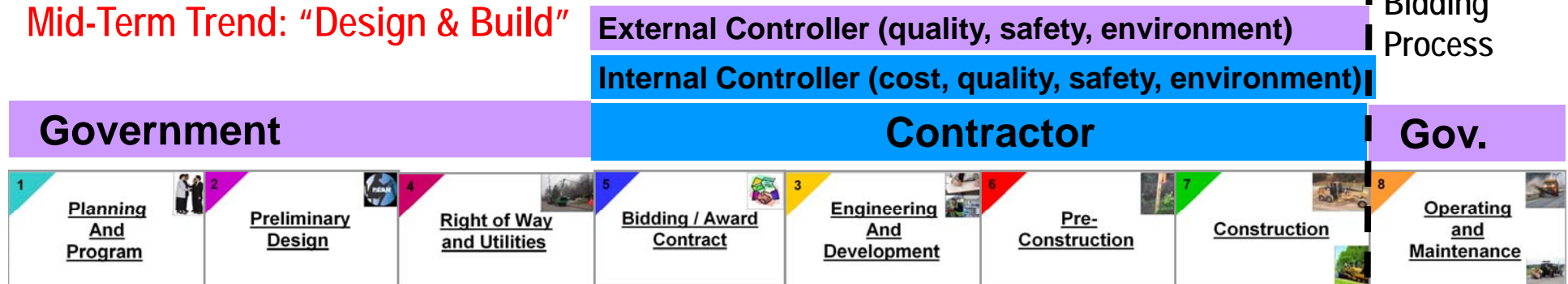
The Road Construction Value Chain



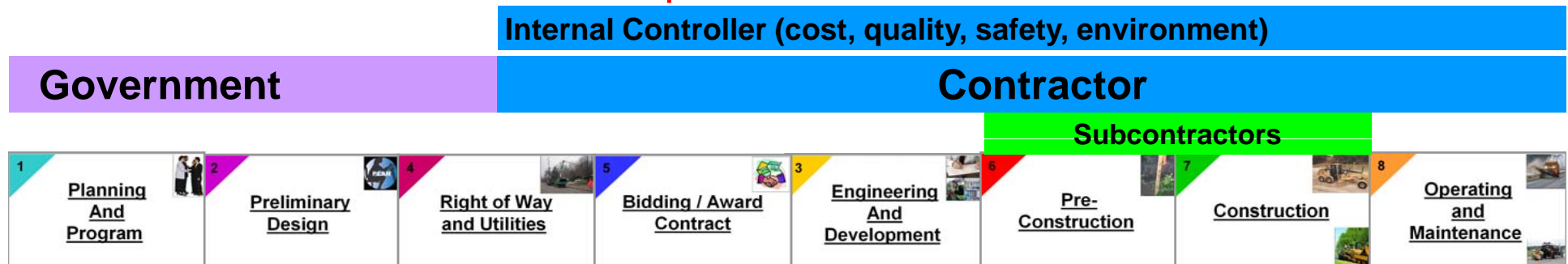
Today mostly "Build Only"



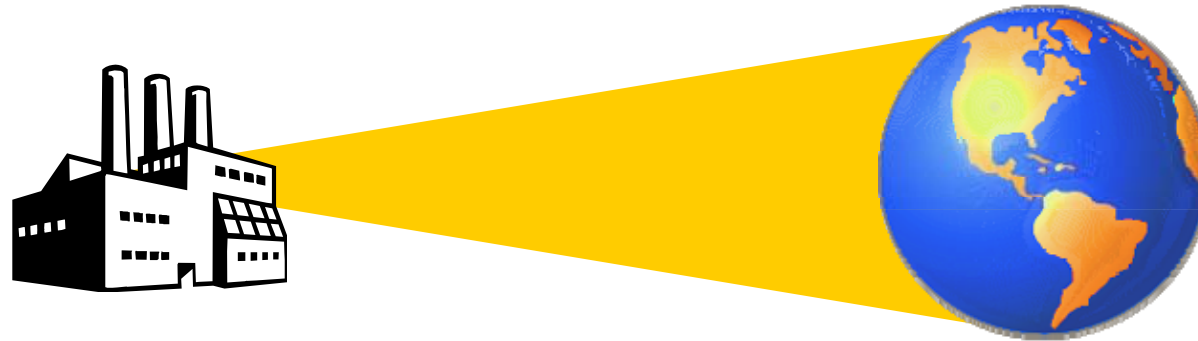
Mid-Term Trend: "Design & Build"



Future Trend: "Public-Private Partnership"



Our 2020 Goals



CAT Operations

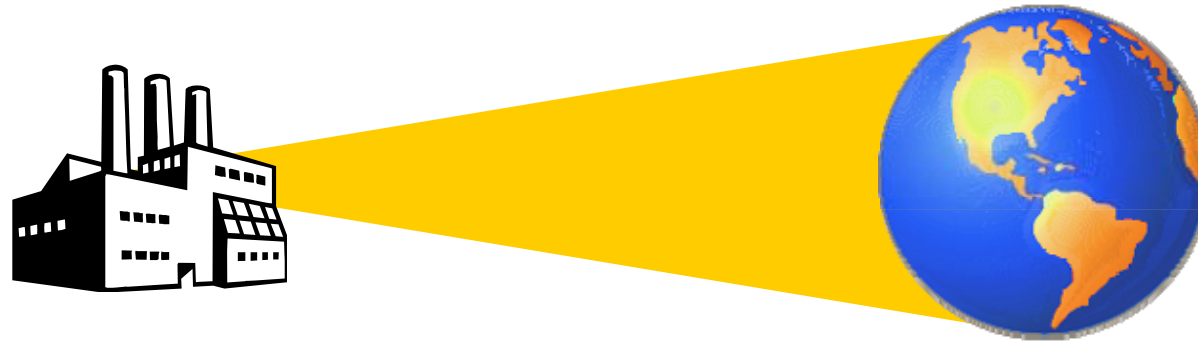
Safety • Water • Waste •
Emissions • Energy
Efficiency • Renewable
Energy • Building Design

Challenges

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Our 2020 Goals



CAT Operations

Safety • Water • Waste • Emissions • Energy Efficiency • Renewable Energy • Building Design

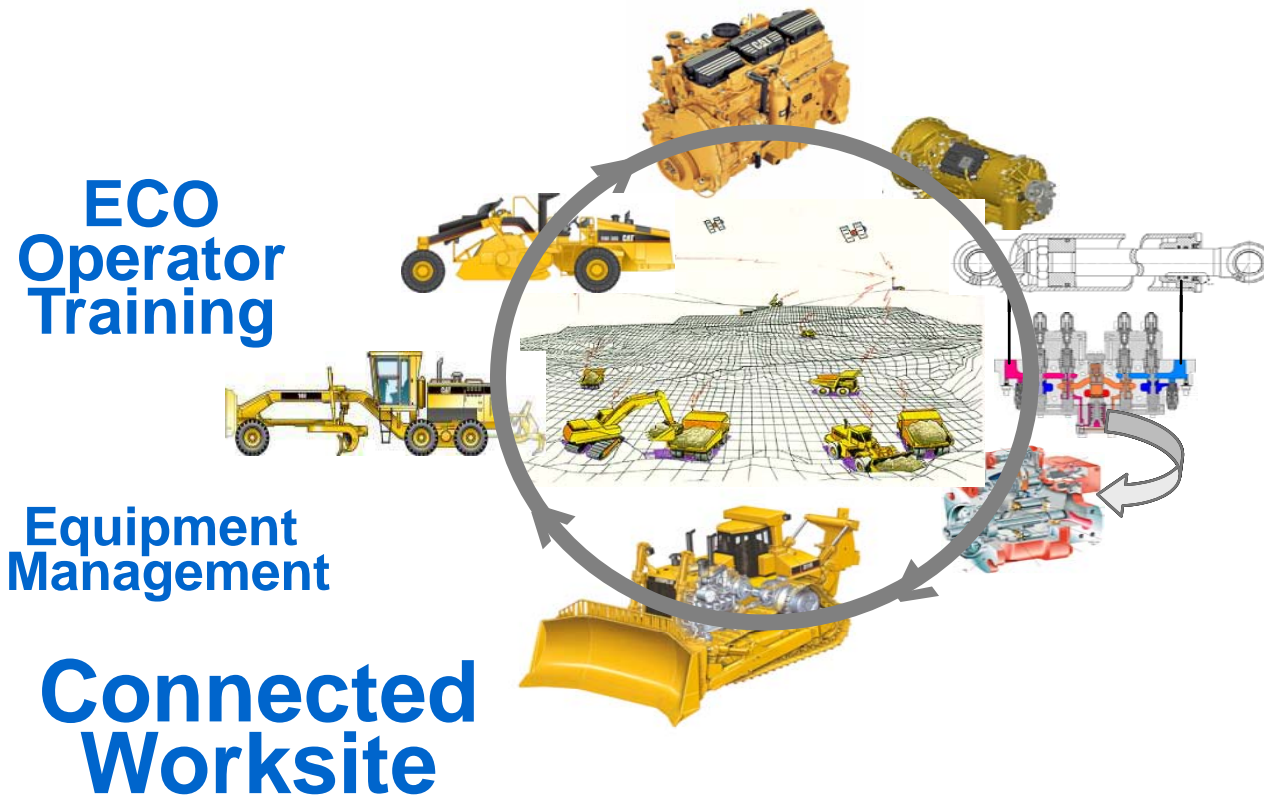
Customer Operations

Safety • Material Efficiency • Energy Efficiency • GHG Reductions

Challenges

Goals

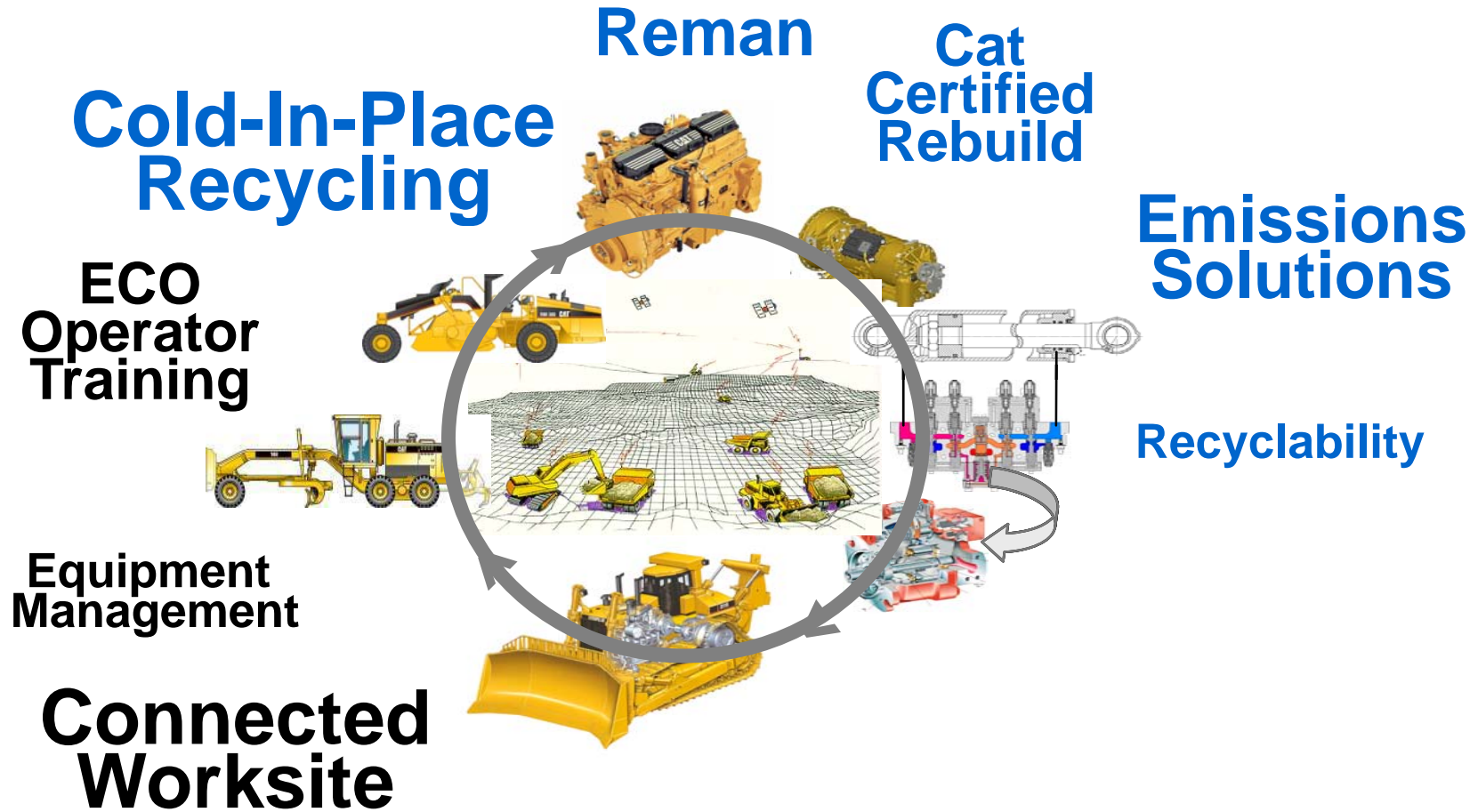
Solutions



Challenges

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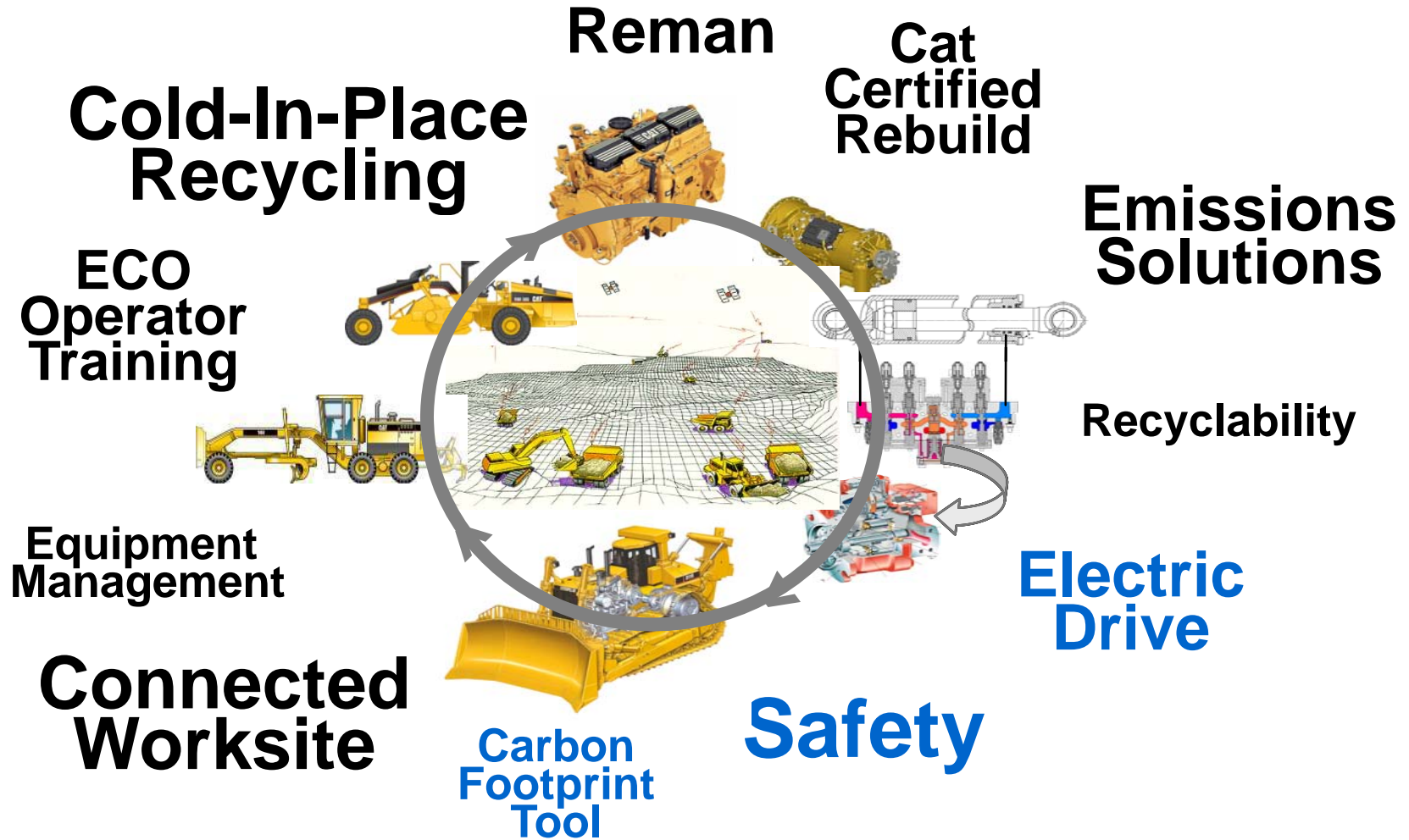
Solutions



Challenges

Goals

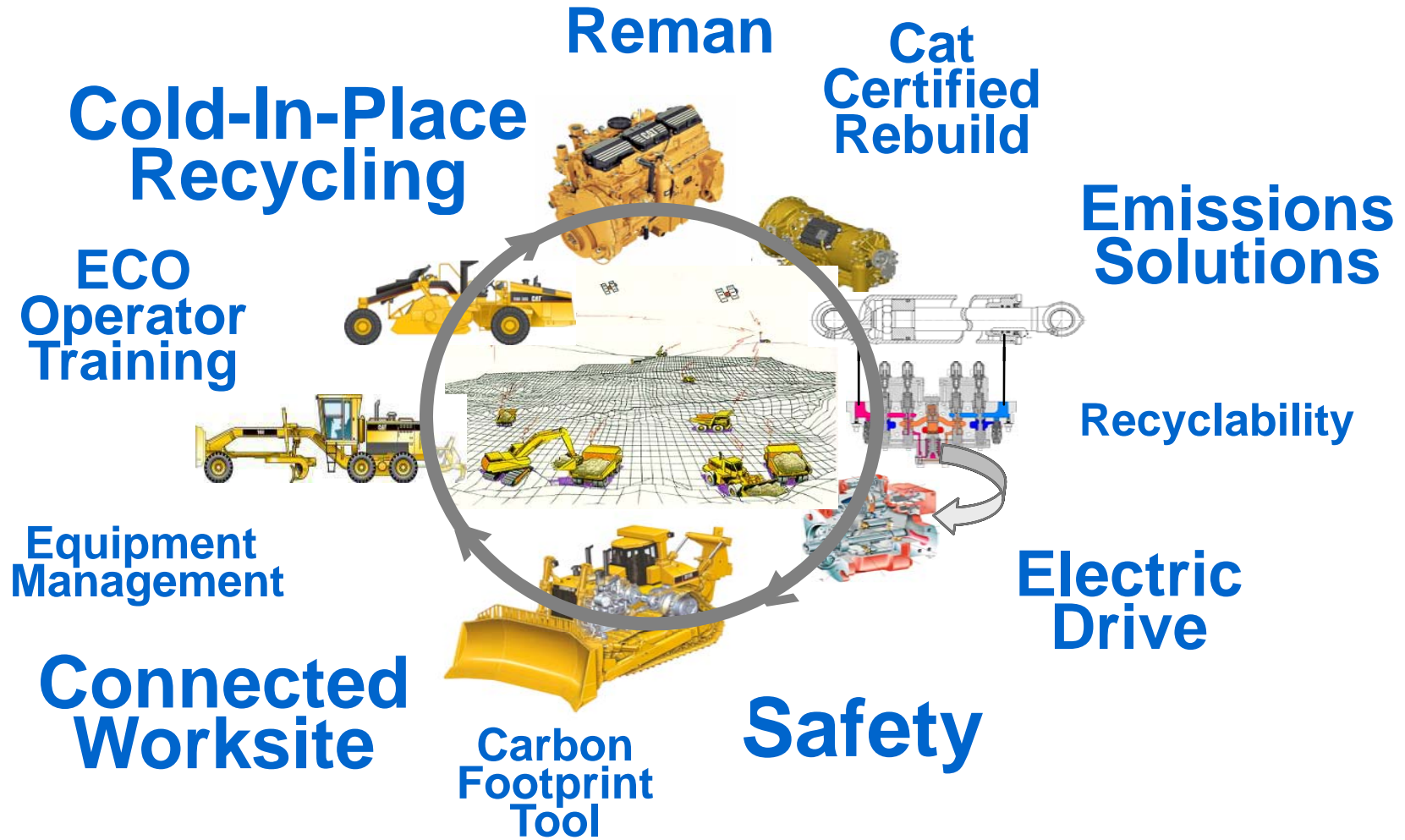
Solutions



Challenges

Goals

Solutions



Challenges

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Solutions