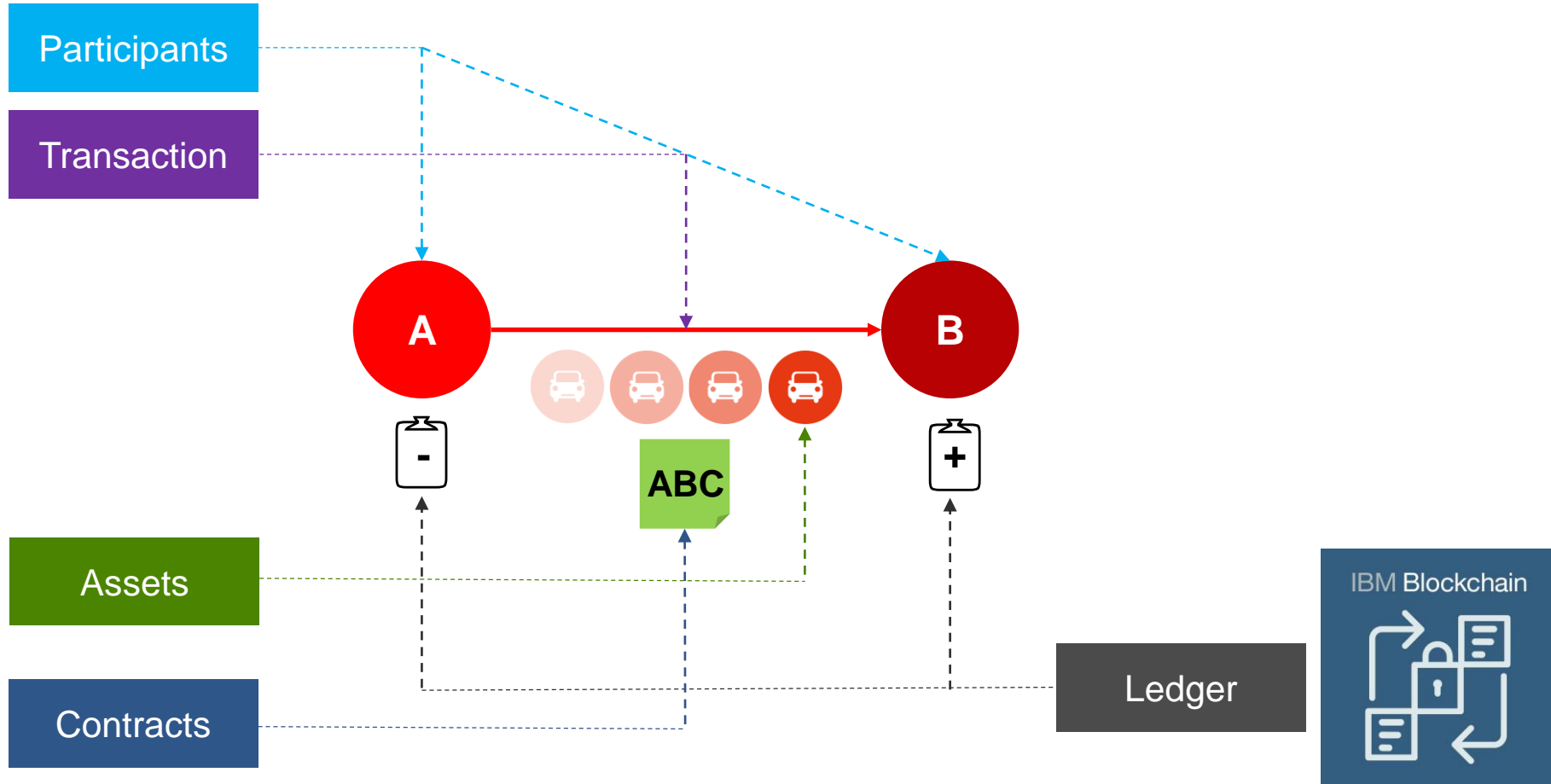


Leveraging blockchain ecosystem for business IoT in Supply Chain

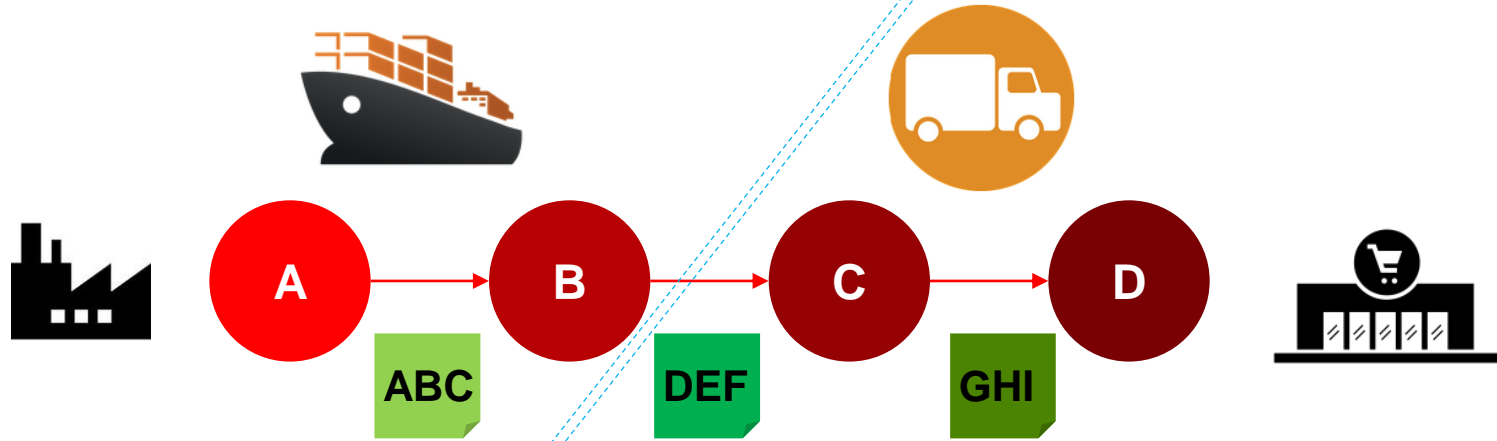
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A business network defined



Supply Chain – A distributed business network



Border



Complexities in distributed business networks

Technical

- Management of disparate data
- Uncertainty: provenance, finality

Non-technical

- Jurisdiction-specific legal order
- Regulatory oversight



Solution : Blockchain + IoT ecosystem

Analysts project by 2025, data from connected devices will yield insights driving potential economic value of as much as USD 11 trillion



IoT Data



Blockchain



Business Network

Blockchain-based business network in IoT

Problem

- How a collected data can be trusted by business participants?



Blockchain-based business network in IoT

Solution

- **Single view:** shared transactions ledger with tamper-resistant records.
- **Distributed consensus:** access and supply IoT data without the need for central control and management.
- **Transparency, accountability and trust:** All business partners can verify each transaction.



Use Cases

Industries

- Automotive, Electronics, Insurance, Manufacturing, Retail

Applications

- Supply Chain : freight transportation, component tracking and compliance
- Operational data log for maintenance : fleet and facilities management, infrastructure safety, product development



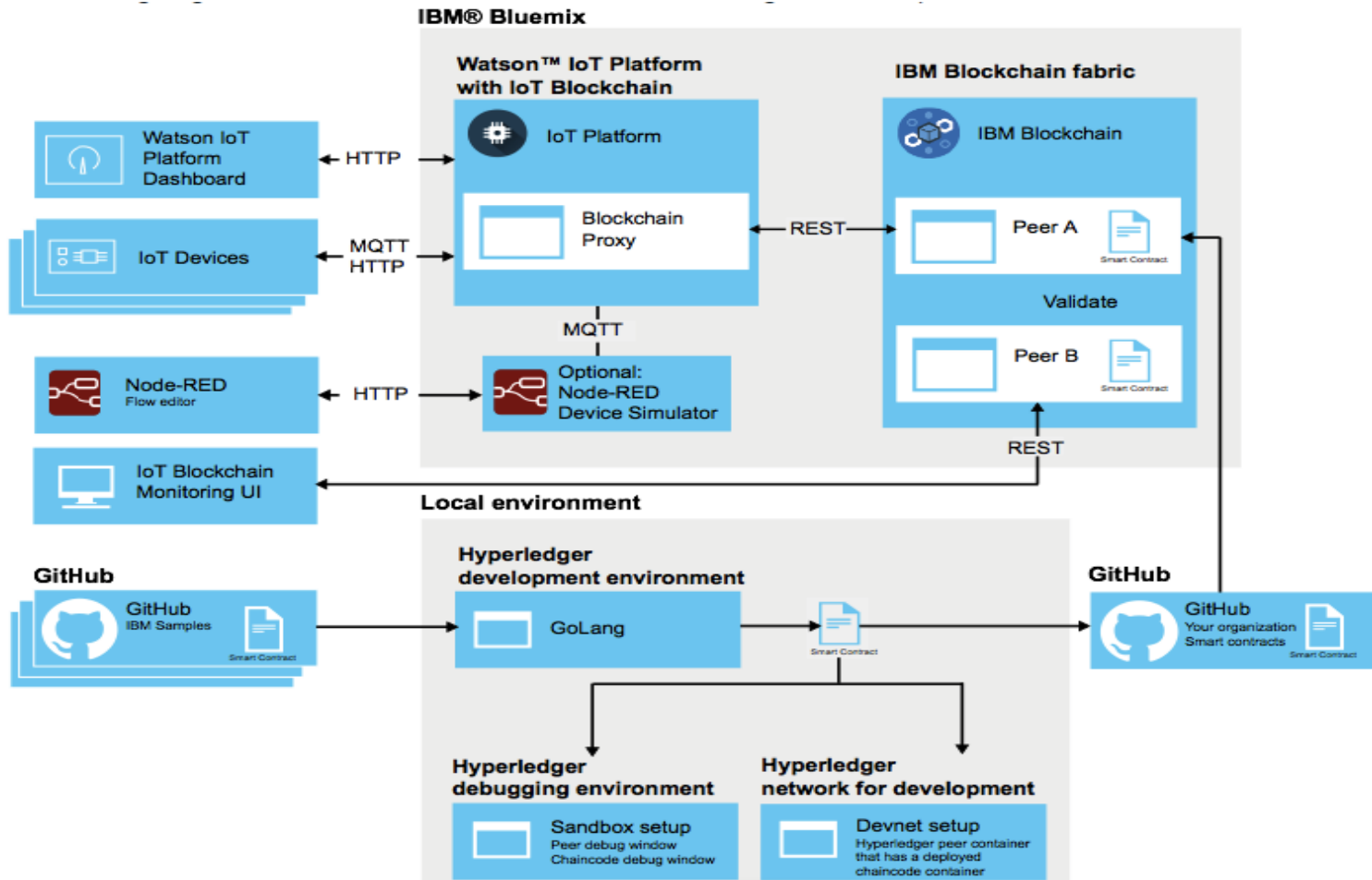
Demo



IBM Blockchain



Demo Architecture



Conclusion

Blockchain + IoT ecosystem are enablers for:

- Building more efficient business networks based on robust, reliable data
- Faster resolution of disputes (breached contract terms, automated contract clause enforcement)
- New business developments in a variety of industries and applications



Q&A

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