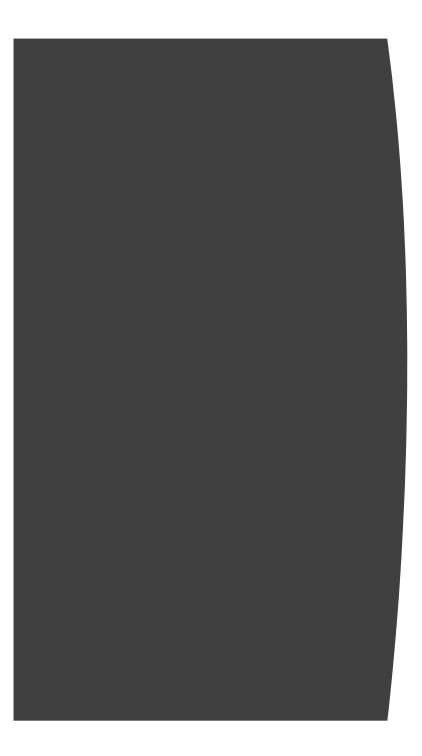


International Association for Contract & Commercial Management

Blockchain and Smart (Legal) Contracts

Summer School: Transnational Commercial Law & Technology Verona, May 30 – June 1, 2019 Nevena Jevremovic, IACCM





Part I: Contract and Commercial Management



Part II: Blockchain and Smart (Legal) Contracts

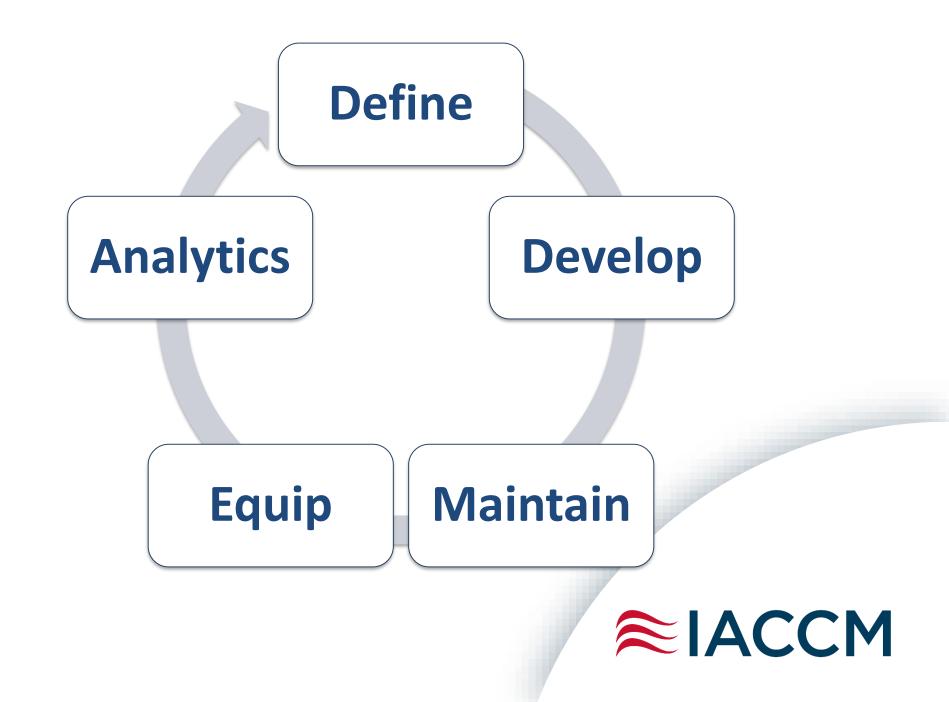


Part III: Challenges

Contract and Commercial Management



CCM: Strategic



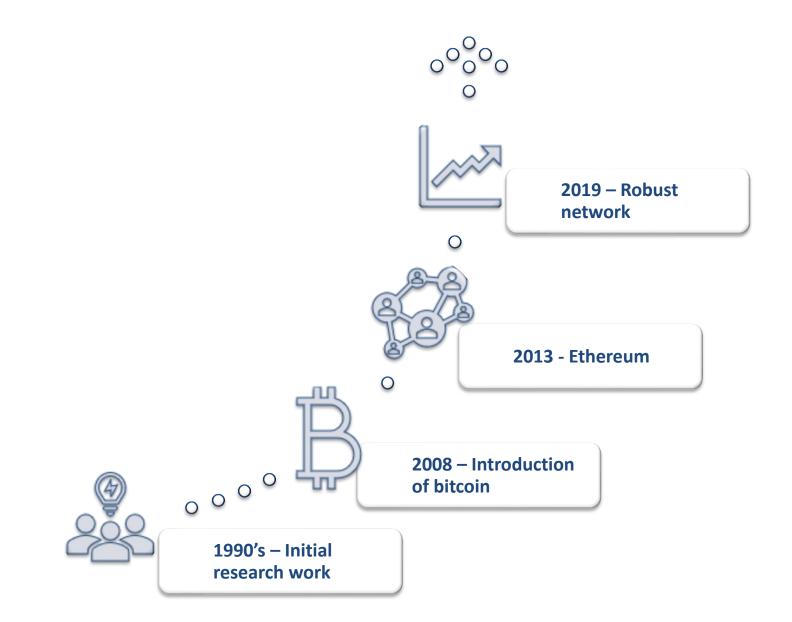
CCM: Transactional



Blockchain

How did it develop?







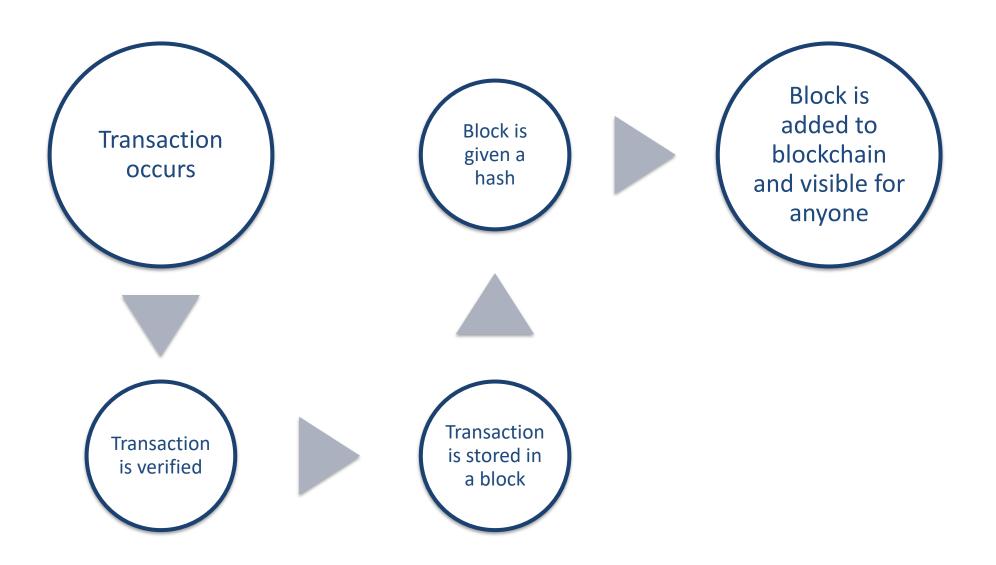


Blockchain is a *distributed*, *decentralized*, *public ledger*.



How it works?

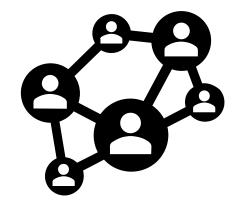






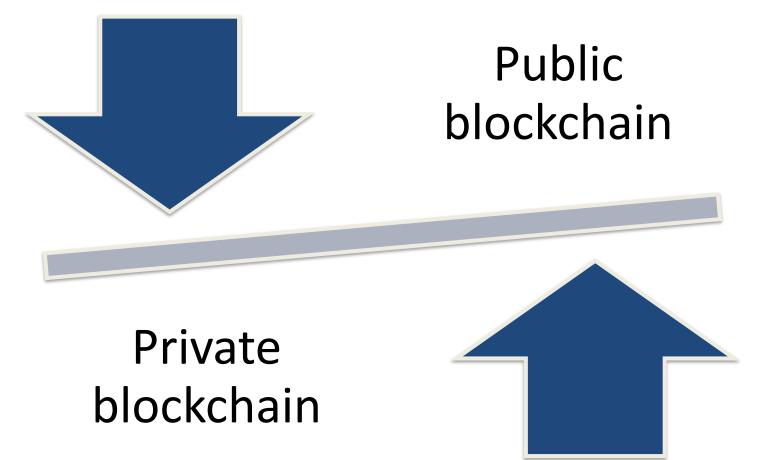
Three key elements

- 1. The ledger
- 2. The network
- 3. The consensus



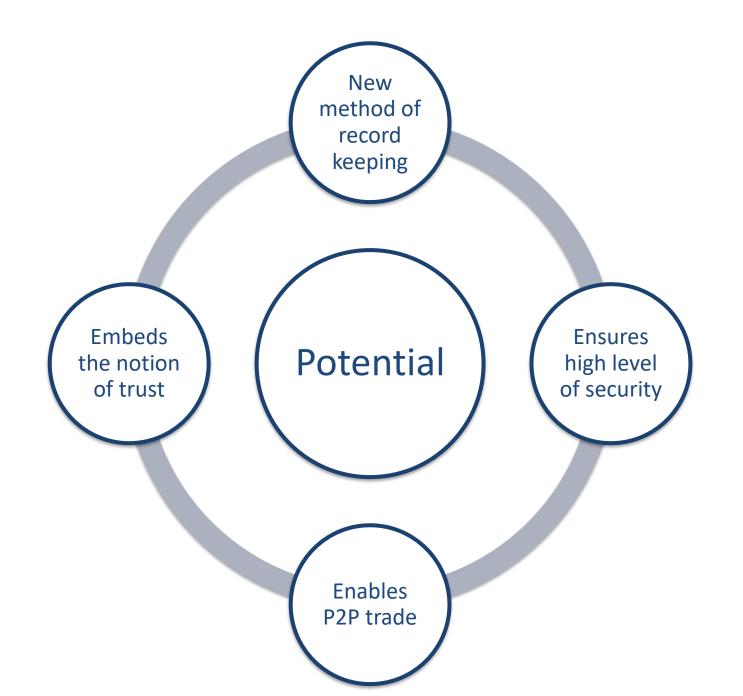
Are all blockchains the same?





Why is it important?





Smart (Legal) Contracts

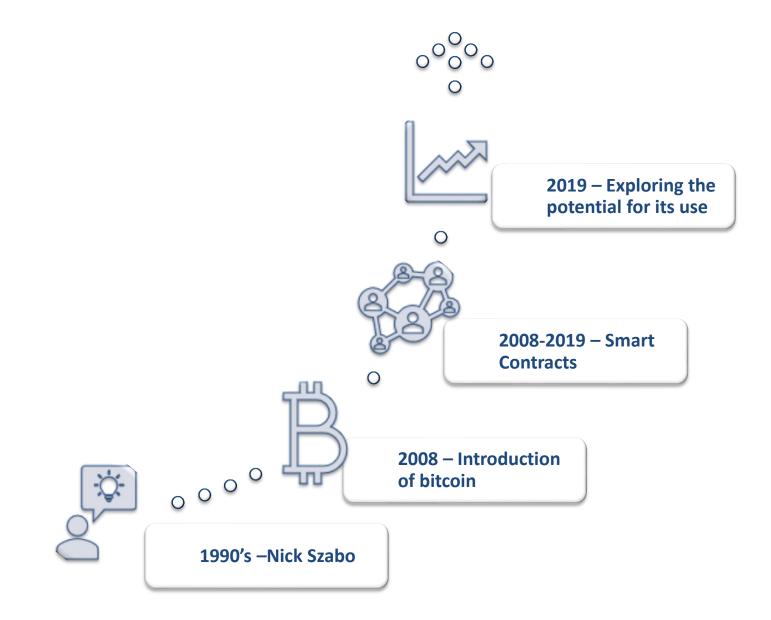
Evolution of *digital* agreements







Evolution of smart contracts ≈IACCM



Smart contracts



A smart contract is a **piece of software** (code) **run** on a **distributed ledger** enabling **automatic execution of an agreement** reached between two or more parties.

Computable contracts



A "smart" legal contract is a legally binding agreement that is digital and able to connect its terms and the performance of its obligations to external sources of data and software systems.

Use Cases

IBM and Maersk: Cross Border Supply Chain



The container is loaded

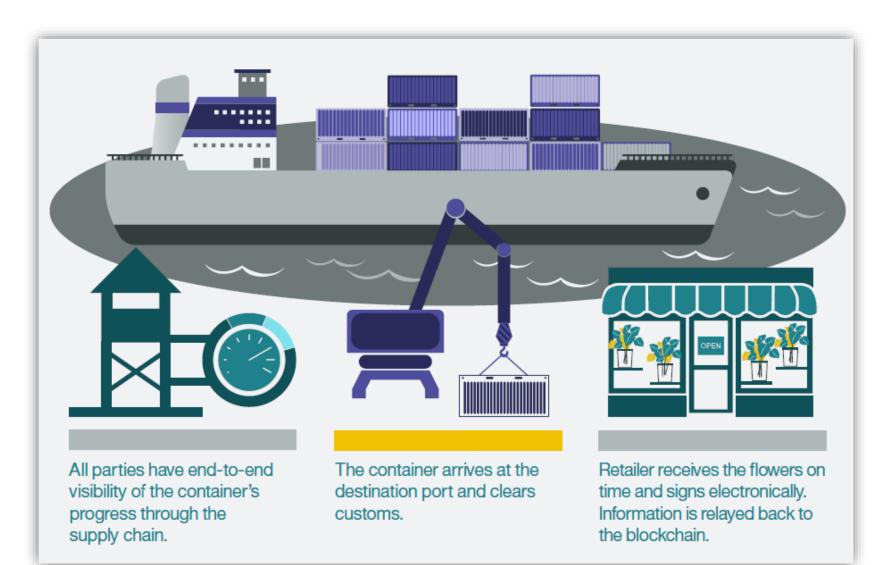
onto the ship.



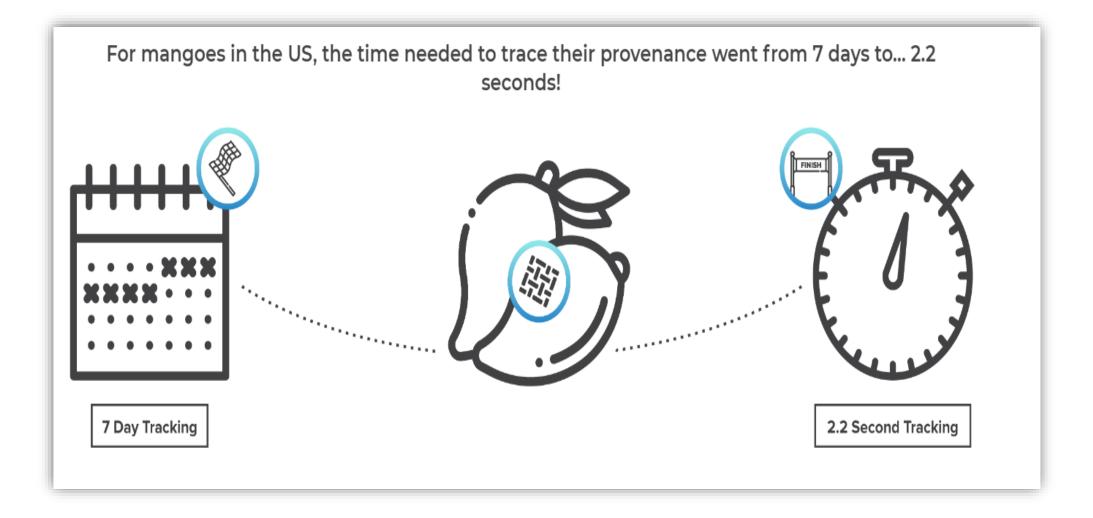
confirms the transaction and executes a smart contract, releasing the shipment.

IBM and Maersk: Cross Border Supply Chain





Walmart Case Study: Food ≈IACCM Safety Control



Accord Project Template



Ergo Test E	Execution		
✓ Send Request ⁵ Reset Contract			
Request 1 { 2 "\$class": "or 3 "contract": " 4 }	rg.accordproject.signature.ContractSigned", "MY_CONTRACT"	Response 1 { 2 "\$class": "org.accordproject.cicero.runtime.Response", 3 "transactionId": "f34f3c47-8b77-489a-8d8e-5d1491f4d2a 4 "timestamp": "2019-05-28T12:25:40.858Z" 5 }	
	rg.accordproject.payment.fulluponsignature.FullPaymentUponSignatureState", NITIALIZED", I"	Obligations 1	

Accord Project Template



<pre>Request Request 1 { 2 "\$class": "org.accordproject.signature.ContractSigned", 3 "contract": "MY_CONTRACT" 4 }</pre>	<pre>Response 1 { 2 "\$class": "org.accordproject.cicero.runtime.Response", 3 "transactionId": "4b85133b-fc40-4f46-9ae8-5911ecb65a53", 4 "timestamp": "2019-05-28T12:27:24.327Z" 5 } </pre>
<pre>Contract State</pre>	Obligations 1 [{ {

Challenges

Focus thus far...



• Are smart contracts *contracts*?

• Do we need a legal framework to regulate blockchain and smart contracts?

• What would be the appropriate legal framework for regulating smart contracts and blockchain?

What it comes down to...



Contract simplification and design

Thank you!

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Setting the Global Standard

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