



B3i roadmap re/insurance, commercial and primary insurance

Paul Meeusen, Mark Simpson

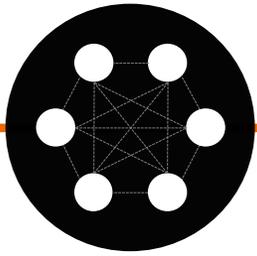
SCOR Annual Conference | 6<sup>th</sup> October 2018

# Objectives of today

- Education - Learn
- Illustration - Experience
- Ideation - Collaborate



# Why B3i uses DLT – Unique features of the technology



Shared  
ledger



Smart  
Contracts



Immutability



Cryptography

# Blockchain technology – A quiz

What does P2P stand for?

- Password to Password
- Peer to Peer
- Product to Product
- Private Key to Public Key

What is a node?

- A type of cryptocurrency
- A blockchain
- A computer on a blockchain network
- An exchange

Who created Bitcoin?

- Satoshi Nakamoto
- Samsung
- John McAfee
- China

What is a blockchain?

- A distributed ledger on a peer to peer network
- A type of cryptocurrency
- An exchange
- A centralized ledger



# Blockchain technology – Quiz solutions

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A type of cryptocurrency



An exchange



A centralized ledger



**Solutions**

# Blockchain technology – Simple definition

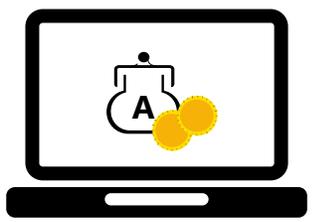
Blockchain is a **distributed database** in which entries are stored in chronologically **consecutive** data **blocks**. **Cryptographic** signatures guarantee the forgery protection of the entries.

# Blockchain technology – even simpler

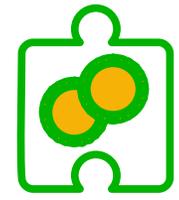
Blockchain is a distributed database.

# Blockchain technology – A short introduction

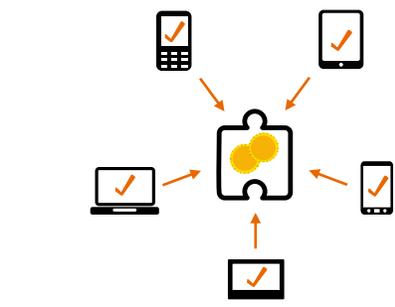
1 | A wants to send money to B



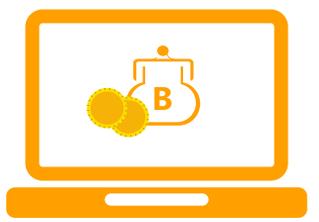
2 | The transaction is represented online as a "block"



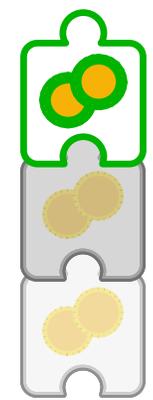
3 | The block is broadcast to every party in the network



6 | The money moves from A to B



5 | The block is added to the chain, providing an immutable record



4 | Network participants approve that the transaction is valid

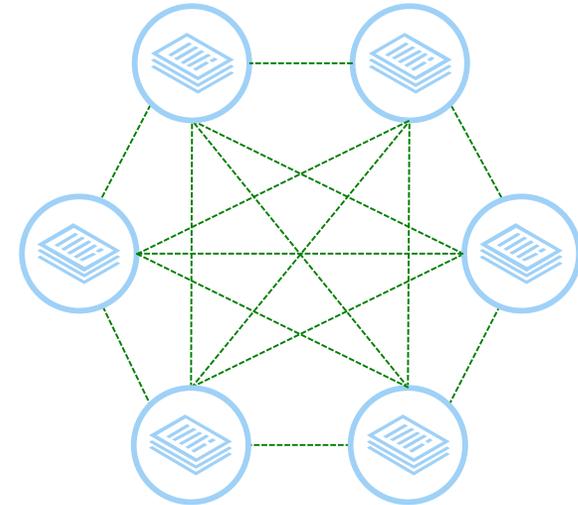
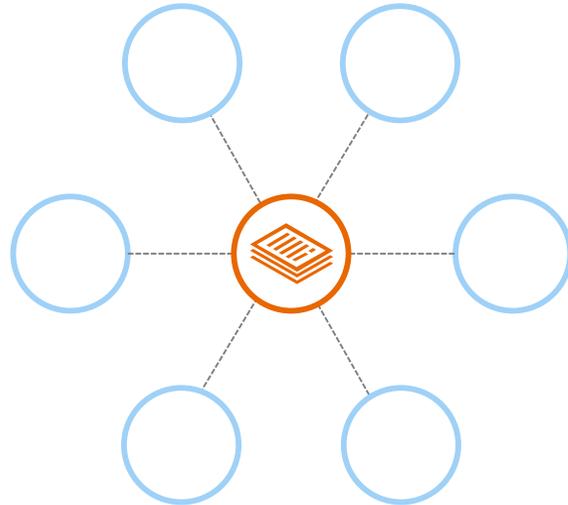
Source: Financial Times

# Peer-2-Peer transactions – A comparison

## Historic – Centralised Ledger

## Future – Blockchain / Distributed Ledger

### Overview



**Speed**  
**Upkeep**  
**Security**  
**Redundancy**  
**Trust 3<sup>rd</sup> party**

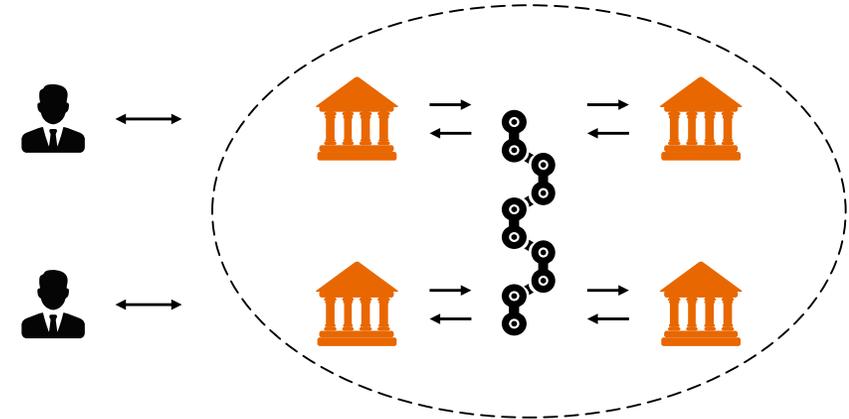
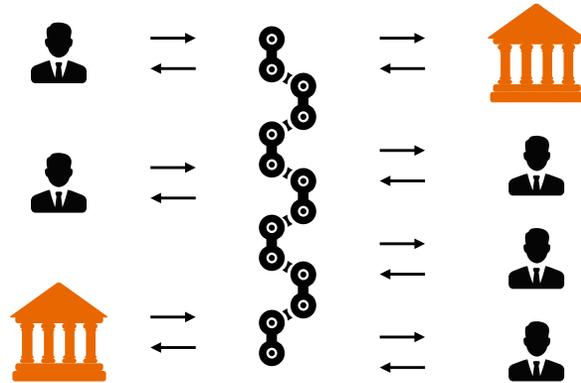
|                         |                   |
|-------------------------|-------------------|
| Faster                  | Slower            |
| Simple                  | More effort       |
| Single point of failure | Highly secure     |
| No redundancy           | By design         |
| Full trust required     | No trust required |

# Private vs. public blockchain – Different fields of applications

## Public Blockchain

## Private Blockchain

### Overview



### Examples



### Speed

Slower

Faster

### Security

Proof of Work/ Stake

Pre-approved

### Identity

Pseudo (Anonymous)

Known („KYC“)

### Privacy

Anonymity Encryption

Sub chains; Anonymity Encryption

# Blockchain technology – Relevant characteristics to use technology

 Multiple parties generate transactions that change information in a shared repository

 Multiple parties update data and these actions need to be recorded

 Participants need to trust that the recorded actions are verified as valid

 Intermediaries are inefficient or not trusted as arbiters of truth

 Enhanced security is needed to ensure integrity of the system

 If these conditions are (largely) met, blockchain is likely to be more suitable than a standard database or other solution

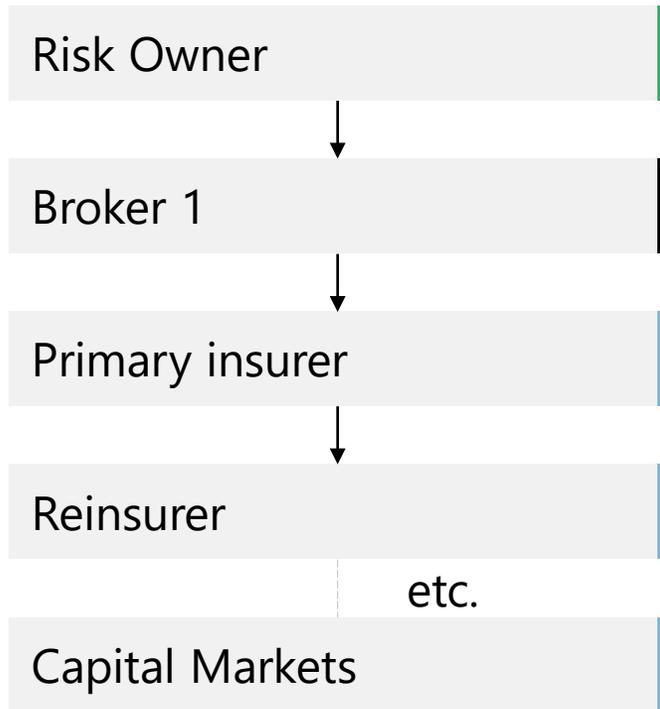
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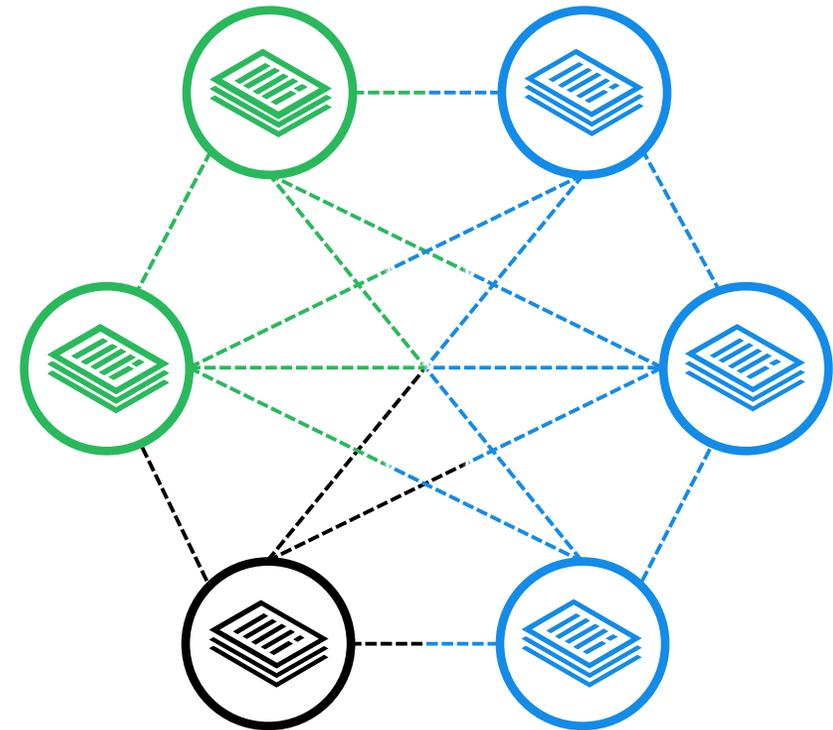


# Recap: Insurance industry – Start acting as a network!

## Today: Insurance process



## Tomorrow: B3i enabled future



Risk owner



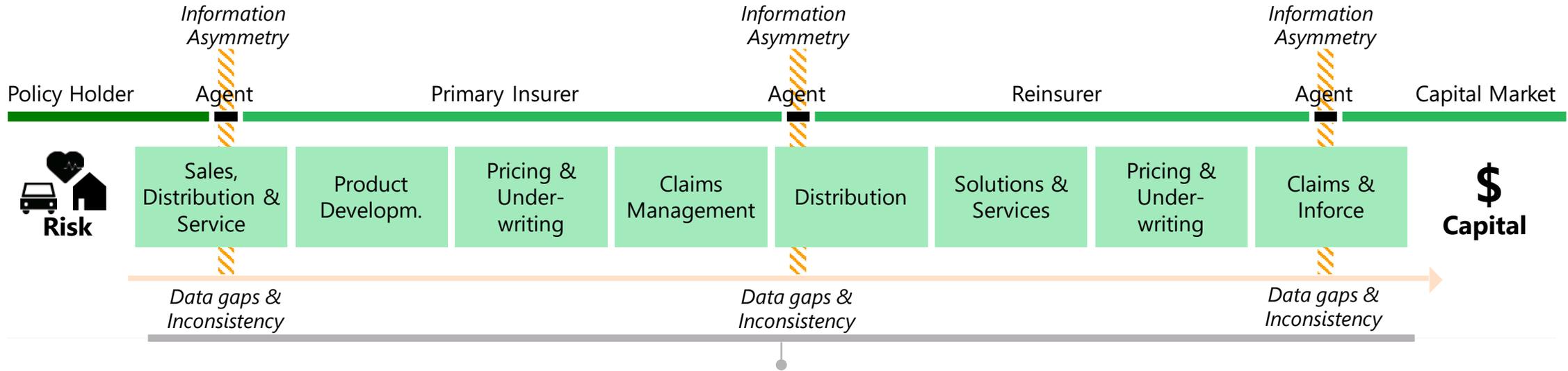
Risk taker



Broker

--- Direct peer to peer connection

# B3i Solution - Inefficiencies & complexity in insurance contracts



## The Problems

- ✗ Sequential and non-integrated procedures
- ✗ Lack of standardisation, integration & automation
- ✗ Asymmetric information and poor audit trail
- ✗ Under-utilised synergy and network effect
- ✗ High dependency on error-prone manual process
- ✗ Data loss from risk to capital

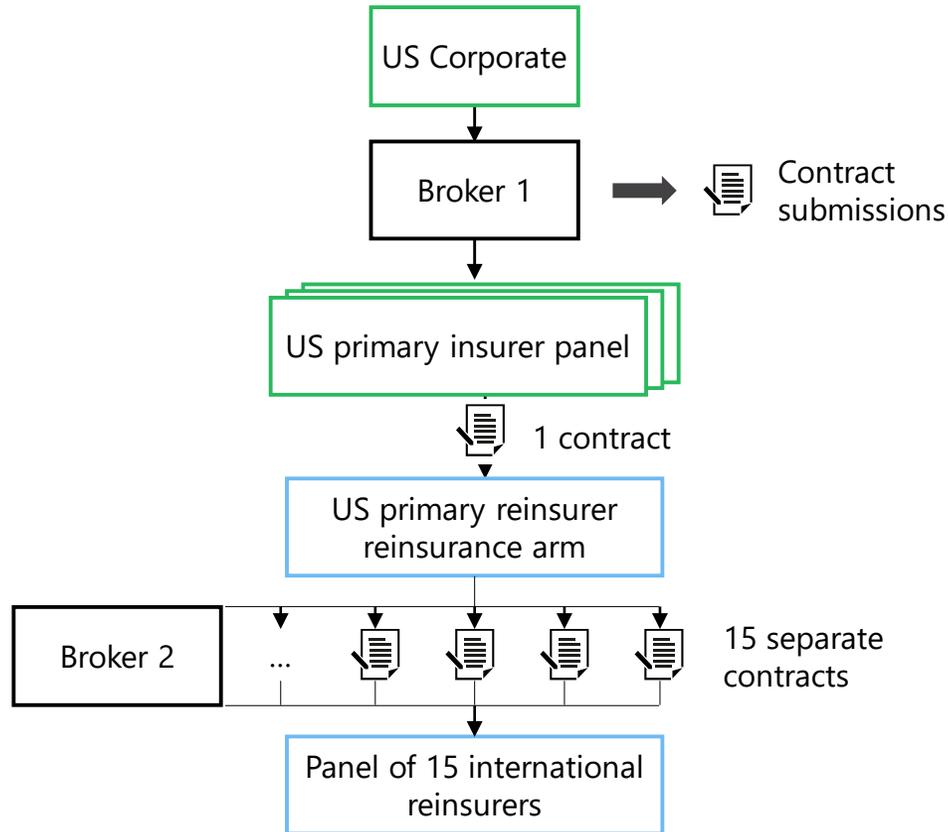


- High operational risks
- High transaction costs
- Costly proprietary networks
- Capital markets ill-informed
- Poor end-customer experience
- Increased complexity

**New technology can bring paradigm shift from risk administration to risk management**

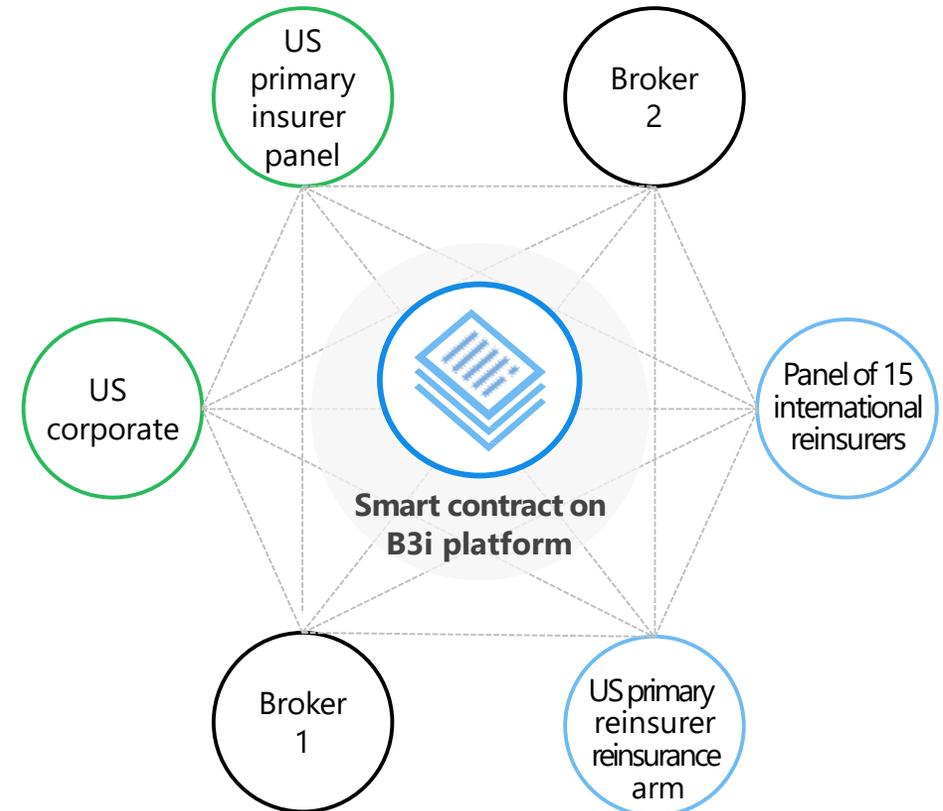
# Commercial Insurance Illustration

## Today: commercial insurance process



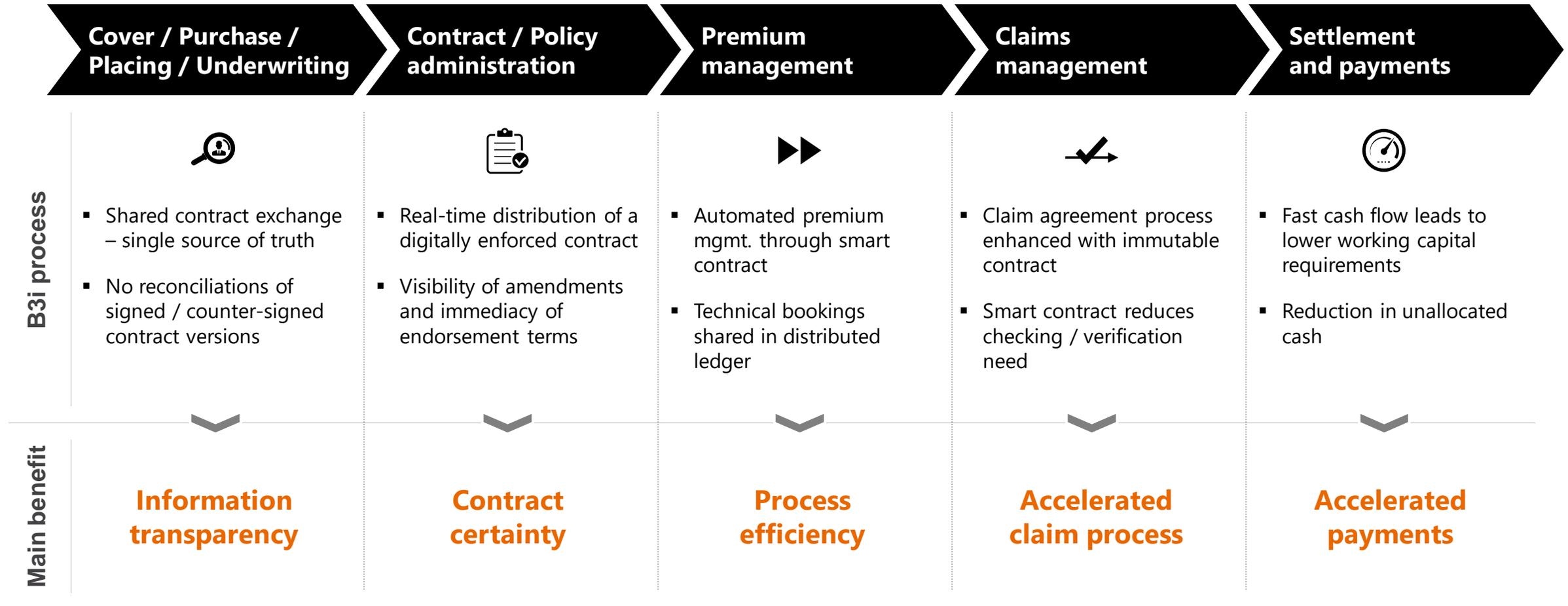
Multiple contracts, unconnected, multiple duplications and reconciliations

## Tomorrow: B3i enabled future

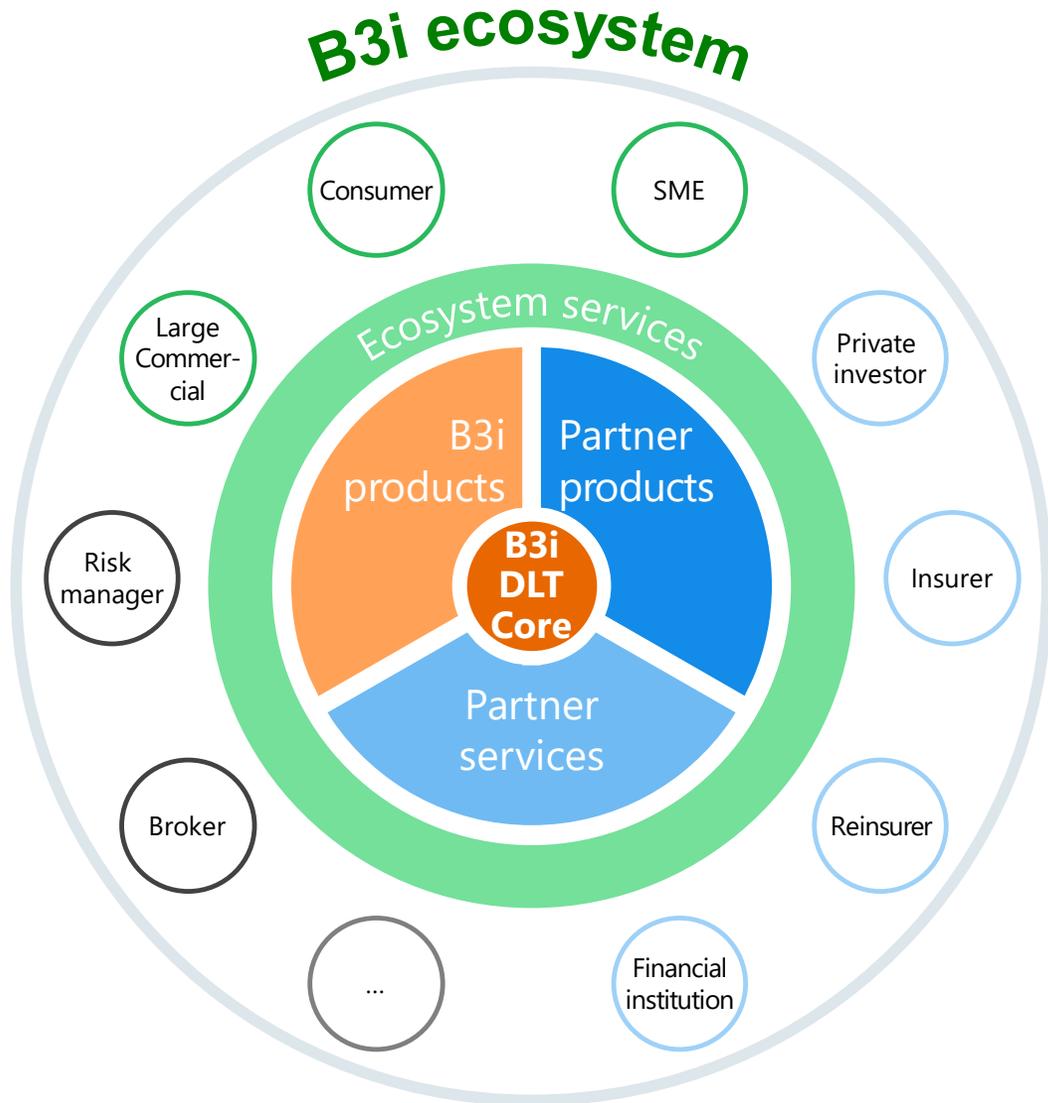


1 consistent and standardised data flow, traceable, administered by digital, smart contracts

# B3i's first product – Prop Cat XoL



# Recap: The B3i ecosystem – Facilitate the network



**B3i software products** target frictionless transfer of risks through smart contracts (e.g. Prop Cat XOL)

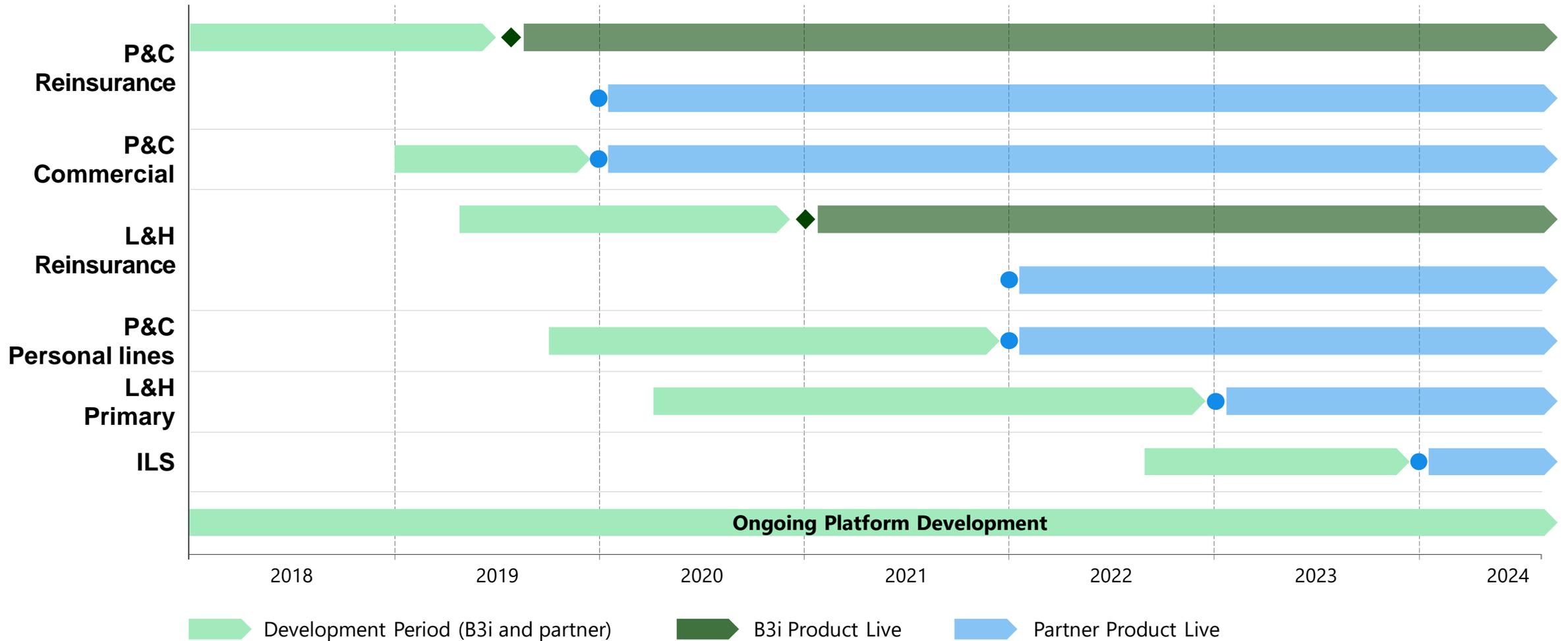


**B3i distributed platform** allows Partners to offer smart insurance contracts and value added services to the B3i network



**B3i infrastructure** enables customers to transact on a trusted and secure shared ledger network

# B3i product roadmap



# Growth potential in high growth markets

## Low margin / high volume contracts

### Insurance problems in emerging markets

#### Market

40% of the world's population possesses neither a bank account nor insurance<sup>1</sup>



#### Regulation

Inefficient regulatory reviews through database with limited data protection



#### Under-writing

Complex (or impossible) due to missing documents and bank accounts



#### Identity management

Substantial portion of population without official address for localisation of insured object / land



#### Claim

High cost to verify claim in rural areas and subject to fraud



#### Settlement

Operational burden of processing a large volume of small claims



High administration costs of insurances and unfavourable local environment restrict insurance coverage

### B3i enabled future

Reduction of protection gap by reduced admin cost



Regulator verification via B3i blockchain while maintaining data privacy



Automated KYC checks based on mobile ID



Tokenized IDs and GPS coordinates as reference for contract



Claim determination by weather data, satellite pictures, social proof and Oracles



Smart Contracts on B3i platform trigger automatic settlements with mobile payments



Combination of DLT, Smart Contracts and IoT allow the coverage of a high number of small premium insurances

<sup>1</sup> Source - World Bank Financial Inclusion Database 2015

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# Your views - time to break out and discuss



Form up into groups of 8-10 with the people around you

In your groups

- Nominate a spokesperson
- Discuss the three discussion topics and identify key points for each topic

30  
mins

Spokespersons feedback at a plenary sessions

10  
mins

# Discussion topics



Where do you see opportunities and risks when using Blockchain?

What are critical success factors for adoption of the B3i Ecosystem?

What could be relevant applications in the B3i Ecosystem?

# B3i insurance blockchain collaboration ... and growing

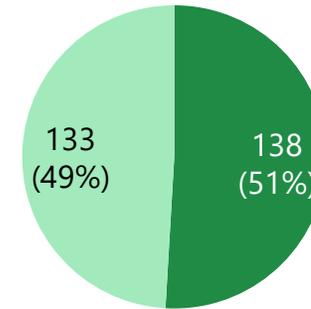


$\Sigma$  >700bn USD overall GWP

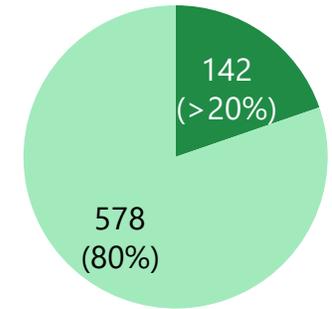
Source: B3i Analysis, AM Best, Swiss Re Economic Research, Stern Stewart & Co., Annual Reports

## GWP Share for B3i's Initial Product Categories

In bnUSD



Reinsurance



P&C Commercial lines premiums

- B3i Shareholders and Market Testers
- Remaining market

**B3i** MEMBER



CONFERENCES



THINK TANK



FEEDBACK GROUP



TECHNICAL LIBRARY



COMMUNITY

Strong network  
How can YOU join?

**B3i**  
MEMBERSHIP  
COMMUNITY

THANK YOU

**B3i**

**paul.meeusen@b3i.tech**

Company info:

<https://b3i.tech/single-news-reader/the-b3i-way-with-paul-meeusen.html>

Product info:

<https://youtu.be/c1cRDi2DUaY>