

UNIFORM ECONOMIC TRANSACTION PROTOCOL



“Payments and transactions – several perspectives”
Utrecht, February 2nd, 2015

Presentation given by FOCAFET
For Open Convenient And Fair Economic Transactions

Who I am and what I do

Who I am

Floris Kleemans

1971

Dutch, Married (with Italian wife)

Father of daughter (7) and sons (5 and 2)

MSc. General Economics, Groningen University

What I did / do



Group Head of Strategy



FOCAFET

Co-founder



UETP



What is a transaction / What is a payment?

Identification and Authentication



Data Management and Privacy



Delivery, Billing and Shipping



Taxation



ERP, Ledger and Information



Payment Clearing and Settlement



Conditions and Escrow Management



Authorisation, Monitoring and Control



These services or processes make up for the bulk of all what we refer to as (economic) transactions

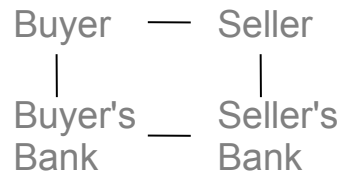
From 'separate systems' to one 'group chat'

Traditional transactions

Several segregated two, three and four corner models



Payment

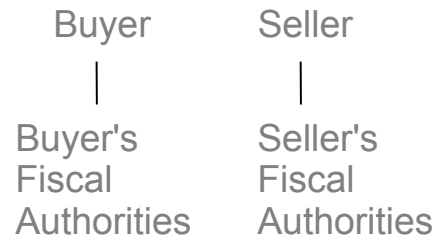


Delivery



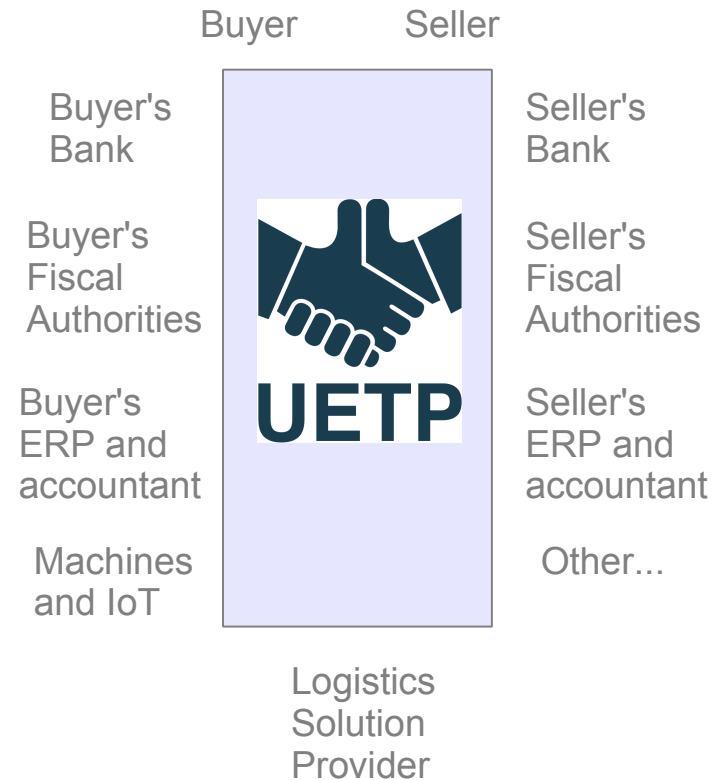
Taxation

Etc., etc.



UETP transactions

The n-party "group chat"



Saying the same things in a billion different ways

Domain	Type of information	Example
Who	Buyer and seller information	Identities and preferences
What	Product / service information	HS (product) codes
How much	(Counter)value information	Amount and currency
When	Date, time and timezone	Date / time stamp
Where	Place(s) and jurisdiction(s)	Geo-, country codes
How	Contractual information	Sales, labour, investment
Other	Other information	Manuals, promotions, ...



Knowledge model takes centre stage

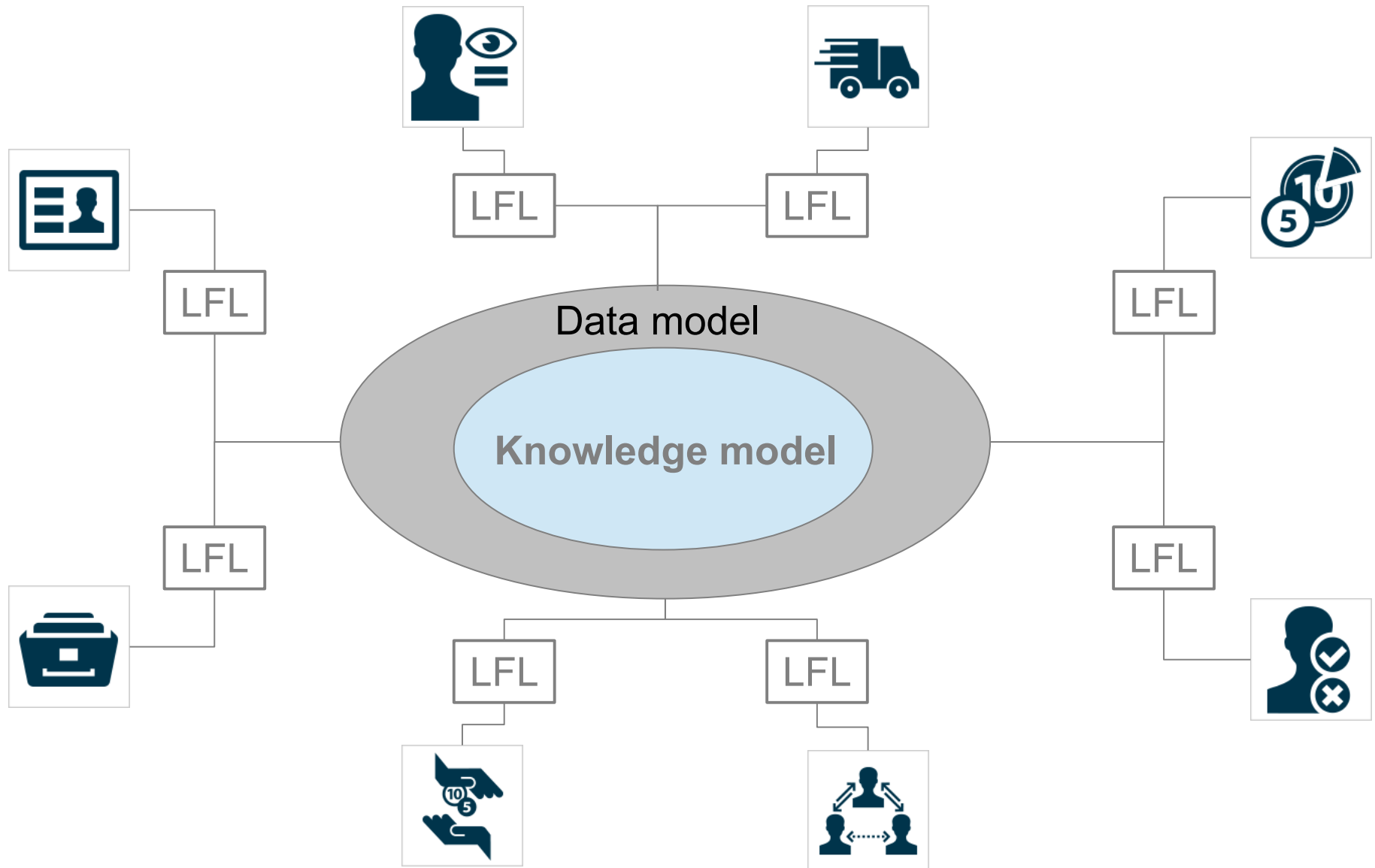


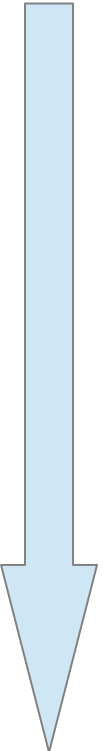
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- What is UETP?
- How are we going to make UETP?
- UETP and supply chain finance

Becoming aware of economic evolution

Evolutionary focus	Time (in years)	Relevant space	Interdependence
Hunter gatherer	40,000	Family / tribe	Very few actors and things
Farming	4,000	Village / city	Few actors and things
Industrial	400	Nation / state	Many actors and things
Information age	40	Global	Global actors and things



Interdependence on everyone and everything.
Is this the purpose of economic evolution?

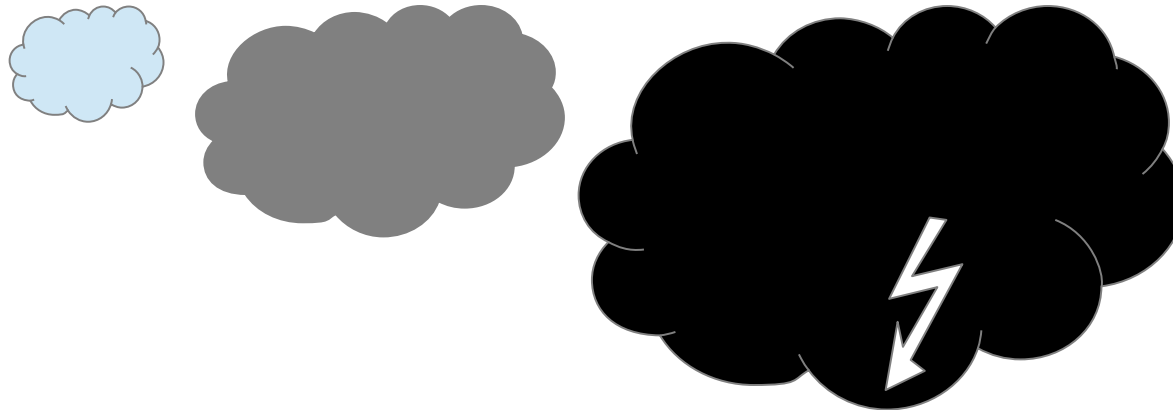
Maximum (economic) output hypothesis

“Maximum (economic) output is achieved when everyone and everything is optimally (economically) involved with its most unique talents and characteristics”

“It is here, where full self potential and full collective potential are aligned. It is here where self purpose and collective purpose coincide”

“What is keeping us from reaching this state, is fully aligned connectivity”

Why do we need UETP? – Two colliding worlds



Growing number of rules, guidelines, policies and data formats over time

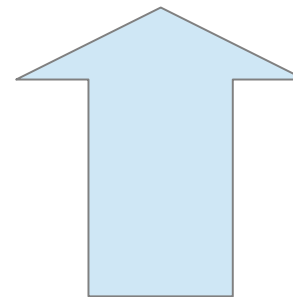
vs.

2000

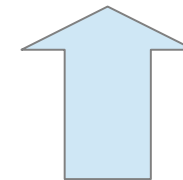
2007

2015

Relationships in global growth, with increasing number of exchanges and data points in transactions



transaction instructions



trade



economy

Economic growth becomes more transaction intensive. Meanwhile, data formats for these transactions grow too. This will lead to exponential growth of costs.

Why do we need UETP? – HTTP vs UETP

HTTP is written for specific applications on specific servers. The search query for 'UETP' with Google and Yahoo yielded the following in my browser:

Google

uetp



https://www.google.com/search?q=uetp&ie=utf-8&oe=utf-8&rls=org.mozilla:en-US:official&client=firefox-a&channel=sb&gfe_rd=cr&ei=HCFNVMm7G-eK8QefmYH4CA&gws_rd=cr&fg=1#rls=org.mozilla:en-US:official&channel=sb&q=uetp

YAHOO!

uetp



Search

https://search.yahoo.com/search;_ylt=A0SO803tJU1UqzIAh4RXNyoA;_ylc=X1MDMjc2NjY3OQRfcgMyBGZyA3lmcC10LTMyNS1zBGdwcmlkAwRuX3JzbHQDMARuX3N1Z2cDMARvcmlnaW4Dc2VhcmNoLnIhaG9vLmNvbQRwb3MDMARwcXN0cgMEchFzdHJsAwRxc3RybAM0BHF1ZXJ5A3VldHAEdF9zdG1wAzE0MTQzNDIxNjE-p=uetp&fr2=sb-top-search&fr=yfp-t-325-s&fp=1

With UETP, one request instruction can be interpreted and executed to all parties simultaneously that accept to work with UETP. Together they can process transactions in real time.

Standardisation old style versus new style

Old style standardisation

- Closed discussion
- Not-continuous
- Formal communications
- Imposed, standard to value
- Enforced from the top down
- Political, formal
- Slow turn around
- Fragmented
- Weaker network effects
- Little enforcement means

New style standardisation

- Open discussion
- Continuous
- Real time dynamics
- Voluntary, value to standard
- Constructed from bottom up
- Consensus, organic
- Fast turn around
- Global
- Stronger network effects
- Transaction certification

With UETP, we set a time line for a goal, get input from various good practices and vote. Semantically, there is no duplication and from a broad functional base, we can support most existing standards

Why UETP? – Different reasons, depending on users

“Things have become so much more efficient.”

“Insourcing and outsourcing has become so much easier.”

“Substantial savings in working capital.”

“I increasingly buy things from companies I did not even know existed.”

“Creating partnerships in real time.”

“No more tax filing. Taxes can be paid automatically.”

“Finally, ownership and control over the data that I generate.”

“Real time compliancy assurance, provides so much comfort.”

“It enables me do to everything in real time.”

UETP, like any language, has different benefits for different users in different situations.

UETP – Why something similar doesn't exist yet

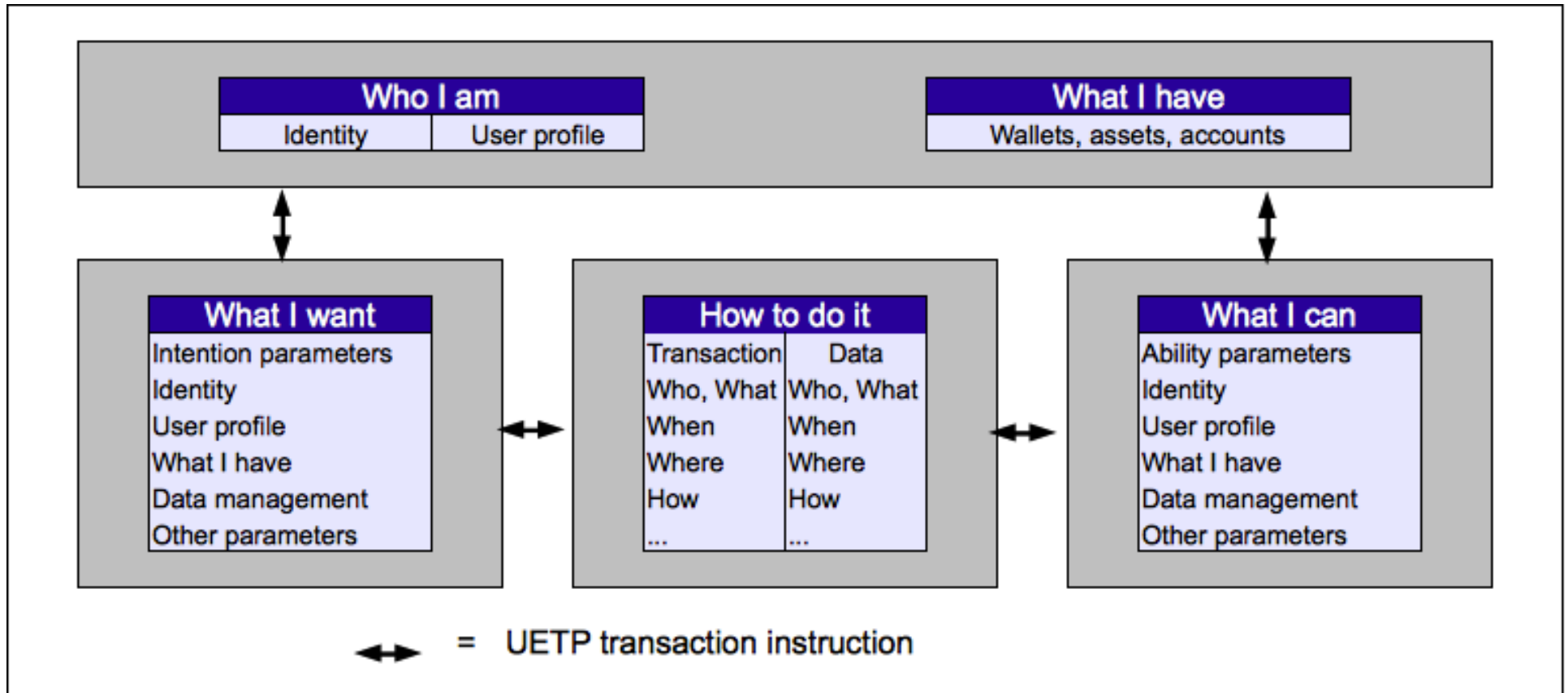
- We are becoming more aware of the issues at stake
- Most parties have been pursuing own interests in standards
- Most initiatives have not been holistic in nature
- Technically, it exists, except for that solutions are not aligned
- Other initiatives have been ahead of their times
- Other initiatives were not free to use or openly accessible
- Governance so far not federated and decentralised enough
- Not sufficient network effects in other initiatives
- We have focused on data rather than on knowledge sharing

What is UETP?



- It's all about agreement on semantics and formats ...
- ... and defining services and processes in transactions
- The need for an integrated ecosystem
- How ecosystem users communicate with each other

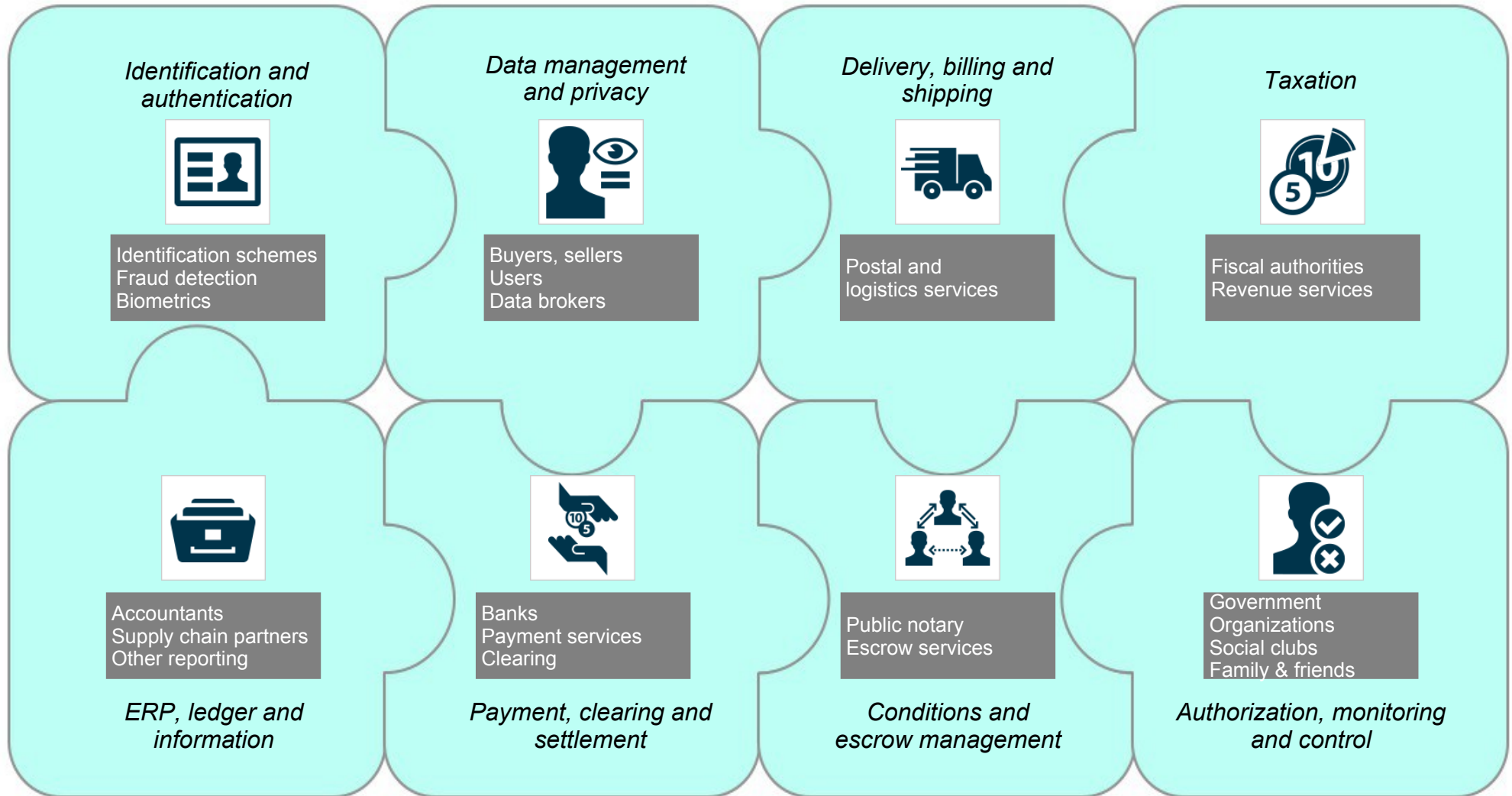
It's all about agreement on semantics and formats ...



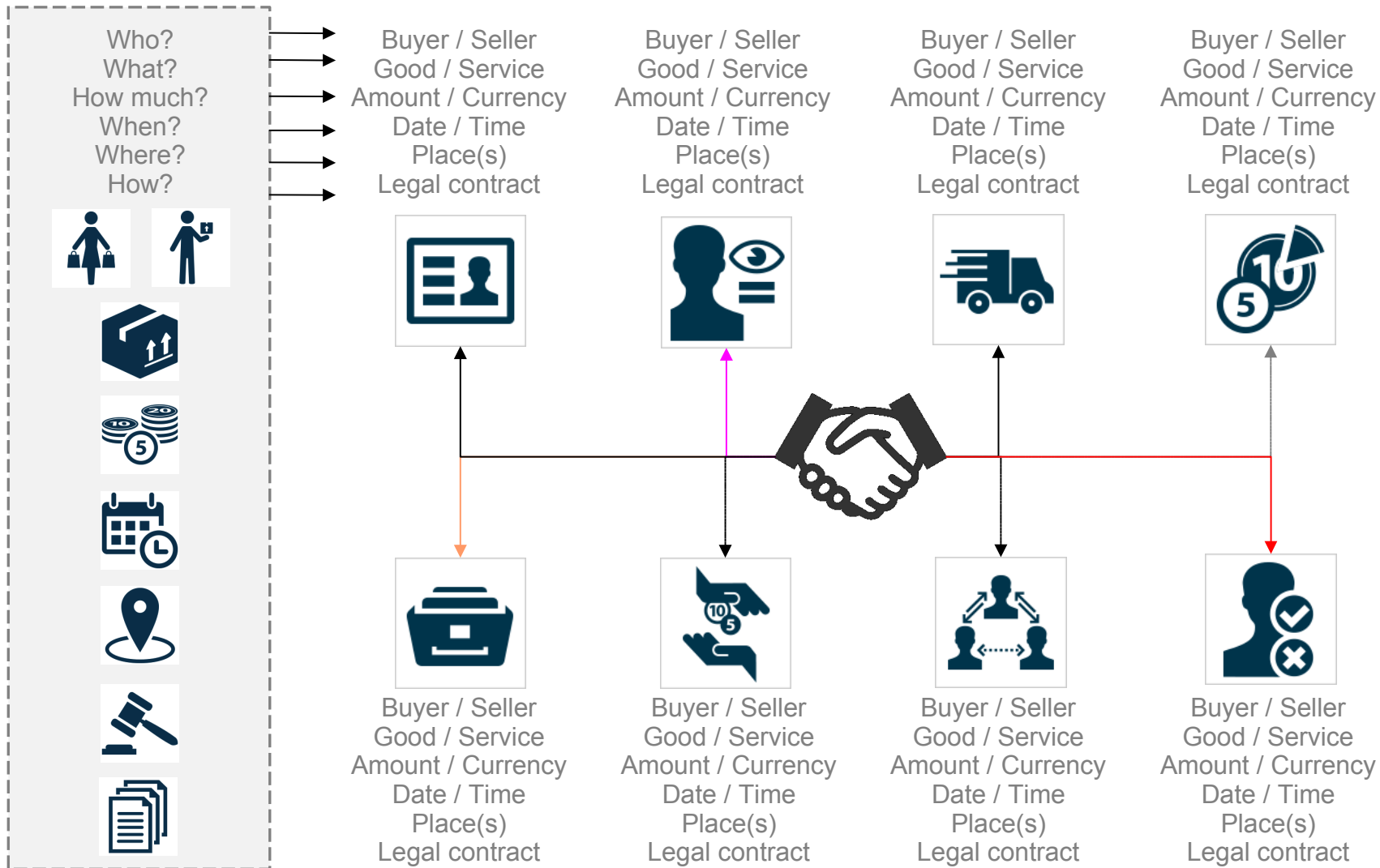
The global ability to communicate with the most important verbs and interrogatives: to be, to have, to do, to want, to can and who, what, when, where, why, how, etc.

The need for an integrated ecosystem

UETP will cover the entire economic transaction ecosystem



How ecosystem users communicate with each other



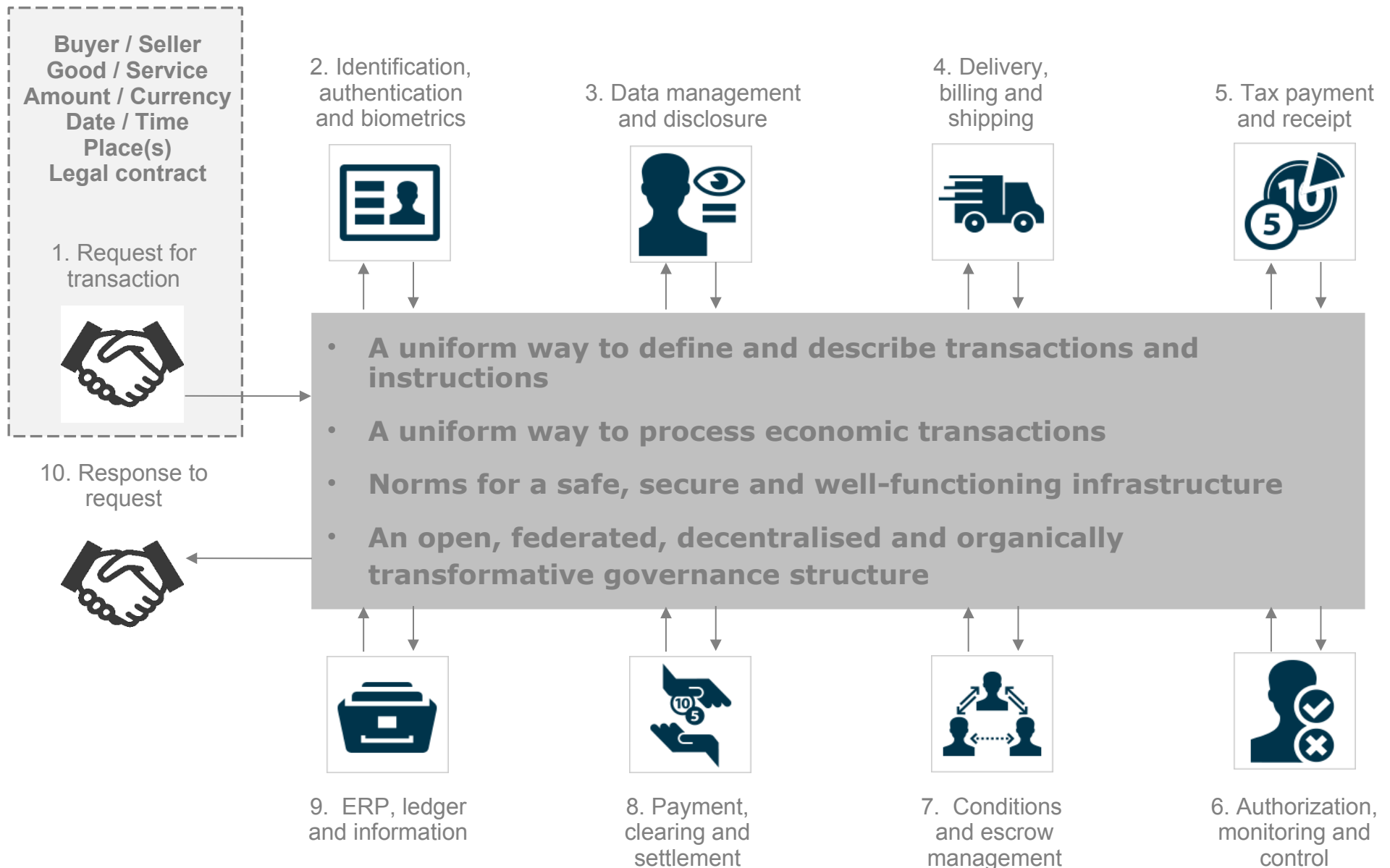
Transaction services almost all use similar data, though they do use different instructions, formats and procedures

How will UETP be realised?



- How will UETP be realised? – Objectives
- How will UETP be realised? - Strategy
- Roadmap – UETP operational pilot
- When
- Who
- Where
- How

How will UETP be realised? – Objectives



Major improvements in STP, risk and compliancy

- Parties and applications work with same information
- No more translation differences
- Improvements in client privacy and data management
- Higher STP inside and outside the organisation
- Real time consent of all parties involved in transaction
- Minimising risks of partially processed transactions
- Supervisors and regulators have same information at same time

How will UETP be realised? – Strategy

Mobilize and build co-creation platform

Co-creation platform

Global, multi-party co-creation platform representing interests of key stakeholder groups in the global transaction ecosystem.

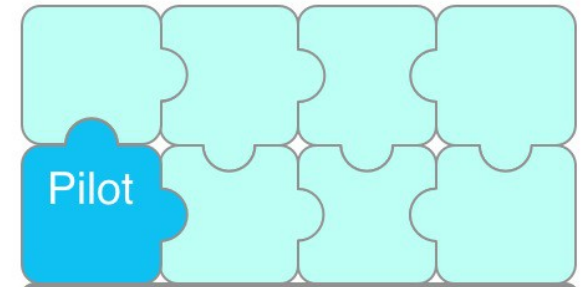
Deliver a pilot to prove value of UETP



Co-creation platform

The value, usage and workings of UETP are demonstrated by connecting to existing international transaction initiatives and leveraging both existing and emerging standards from partners.

Create common language and embed in daily use



Co-creation platform

Setting up and maintaining an ecosystem which establishes uniform and accepted data definitions, standards and protocols, which can be used by all.

Roadmap – example of a UETP operational pilot

UETP value proposition pilots are built. We use input to create UETP.

In co-development with HP and Stream Mind, the following functionalities went live in production in 3Q2014:

Based on approved underlying infrastructure and technology

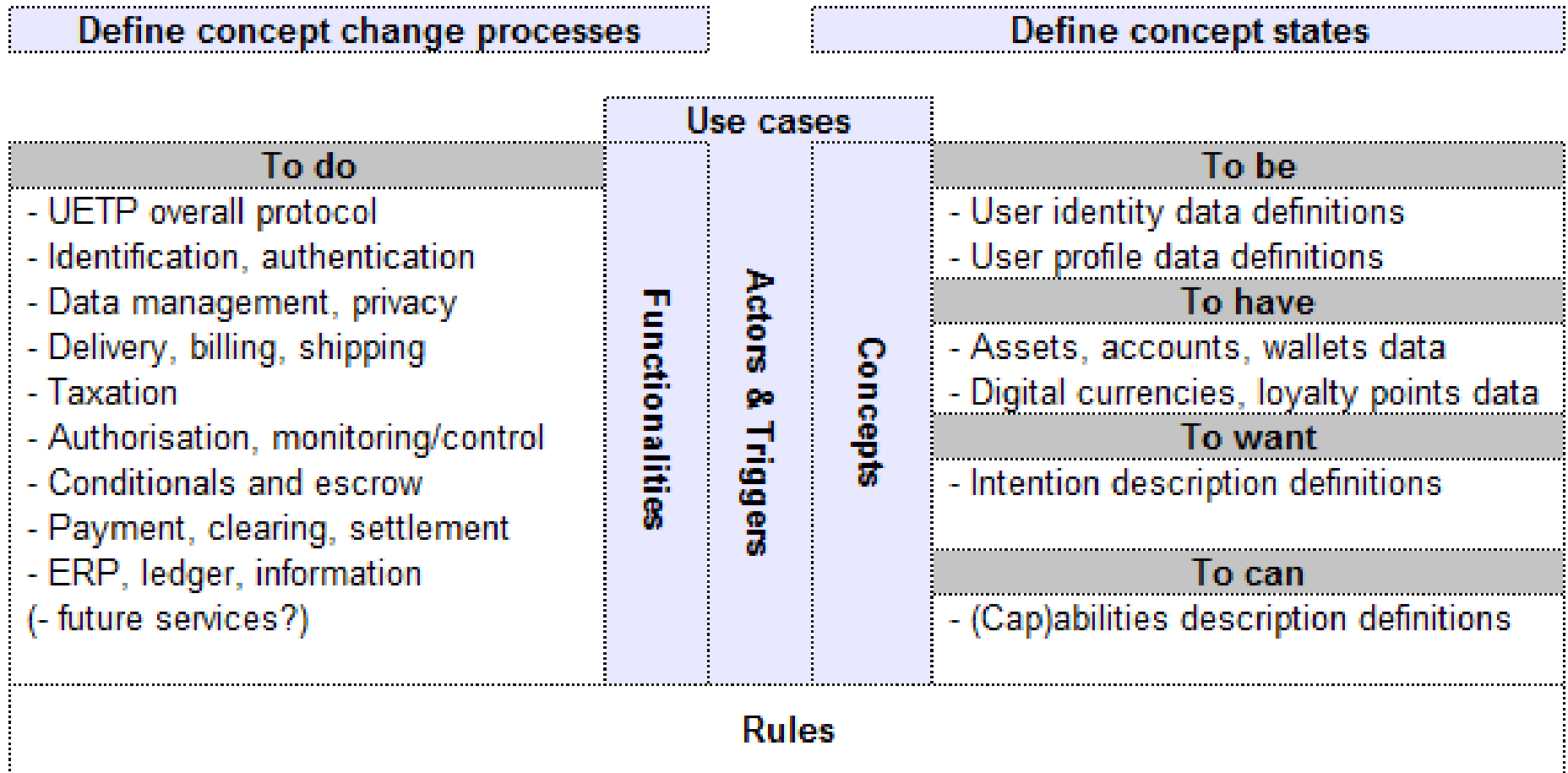
SEPA payments
e-billing / e-invoicing
Delivery confirmation
eCommerce (Magento) connectivity
Interfacing for logistics, banks and consumers



The screenshot shows a Magento checkout page. At the top, there is a search bar and navigation links for 'My Account', 'My Wishlist', 'My Cart (2 items)', 'Checkout', and 'Log Out'. The user is identified as 'Didier MARTIN'. The page is divided into a main checkout area and a 'YOUR CHECKOUT PROGRESS' sidebar. The main area has a progress indicator with five steps: 1. Billing Information, 2. Shipping Information, 3. Shipping Method, 4. Payment Information (highlighted), and 5. Order Review. Under 'Payment Information', the 'Uniform Economic Transaction Protocol (Delivery, Billing and Shipping Protocol)' is selected. Fields include 'First Name: Didier', 'Last Name: MARTIN', 'Enter your IBAN number: *' (with value FR273000300369PHS4MJ4JL1100), 'Option: Pay at delivery' (checked), and 'Enter your delivery pin code (4 digits): *' (with masked input ****). Below these fields, there is a note: 'Pay with UETP payment processing. Choose your pin code to enter at delivery time to accept payment.' and radio button options for 'Check / Money order' and 'Credit Card (saved)'. A 'Continue' button is at the bottom right. The sidebar shows 'Billing Address' (Didier MARTIN, StreamMind, 59, rue de Chateaudun, PARIS, Paris, 75009, France, T: 0626722487), 'Shipping Address' (Joost LANGEVELD, Hewlett-Packard, Startbaan 16, Amstelveen, 1187, Netherlands, T: +31 20 721 1111), 'Shipping Method' (Flat Rate - Fixed €10.00), and 'Payment Method'.

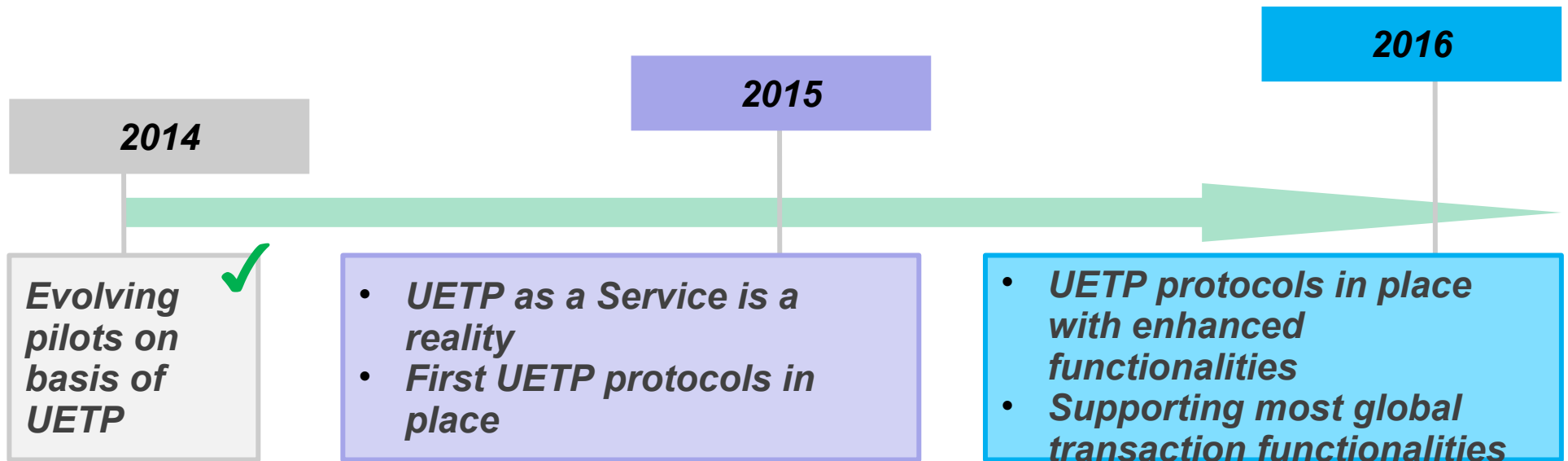
A screenshot from the live pilot production environment

Knowledge model: Unique and dynamic concepts



The co-creation platform produces community supported consistent use cases. The use cases are used as input to develop the protocols and data code sets.

Roadmap - When



FOCAFET – Foundation facilitating the UETP initiative

FOCAFET

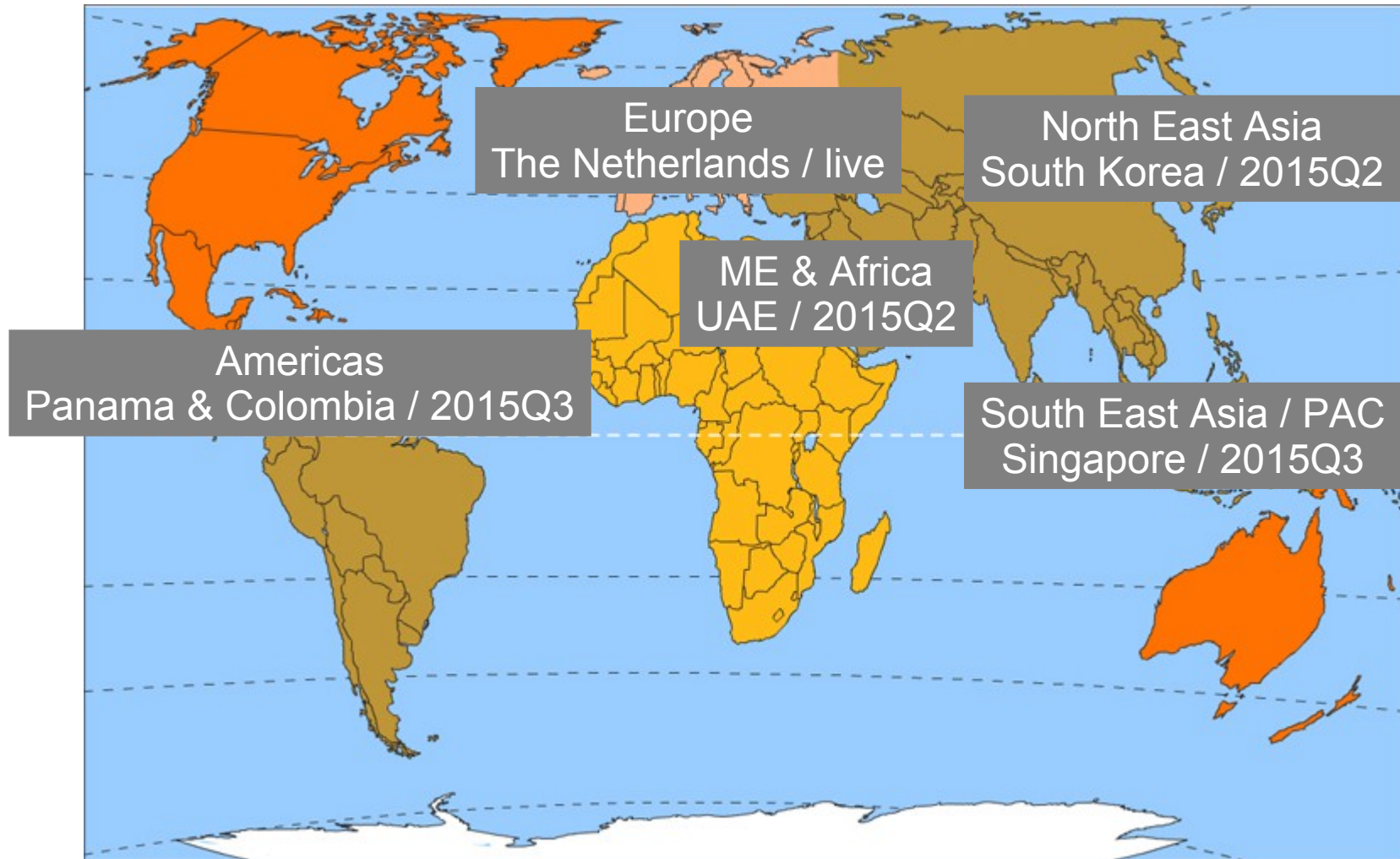
For **O**pen **C**onvenient **A**nd **F**air **E**conomic **T**ransactions

- Adheres to “This is for everyone” - principle (internet way)
- UETP protocol is free to use
- Non-profit foundation, no direct benefits to management
- Facilitates open, federated, decentralised governance models
- Is transparent and organically transformative
- Facilitates open source, royalty free, patent free co-creation
- By design, no third party trust required
- By design, no role in transaction execution
- Intends to minimise itself, avoiding power creation

Already strong ecosystem support

- Globally leading technology and data enterprises
- Financial industry players within Europe, increasingly outside Europe.
- Globally leading consultancy firms
- Open source, blockchain and Bitcoin-like communities
- Telcos and hardware enterprises
- Other industries
- SME interest groups
- Consumer interest groups
- Increasing interest from (various) governments, regulators and supervisors across all continents

Foundation with regional hubs



From creation to implementation

Co-creation platform

Societal discussions and decisions on functionalities, customer journeys, use cases and data definitions.

Data code sets development

Data definitions with open source translation in natural languages.

Data code sets repository

Real time repository.
Available to check consistency of applied data in transactions.

Protocol development

Input used from co-creation platform to develop protocols.

Protocol repository

Real time repository.

Why UETP will be successful

- Easily and intuitively understood
- UETP protocol is free to use
- Already critical committed ecosystem for network effects
- Right timing, need for standardisation is high
- Full time and sufficient resource availability
- Scope and scalability
- Open to integration of existing standards and practices
- Open, decentralised, federated and organically transformative governance

UETP and W3C Payments

- Complimentary worlds in front end and back end
- Use cases W3C Payments to be embedded in UETP knowledge model and data models
- Open model / interactions
- Possible bridge function PSD2 / bank APIs
- Possible bridge supply chain / ERP suppliers
- Possible bridge government / supervisors / fiscal authorities
- W3C enabling web / app / browser interfacing of UETP
- Open to integration of existing standards and practices

UNIFORM ECONOMIC TRANSACTION PROTOCOL



LET'S MAKE THIS WORK TOGETHER