

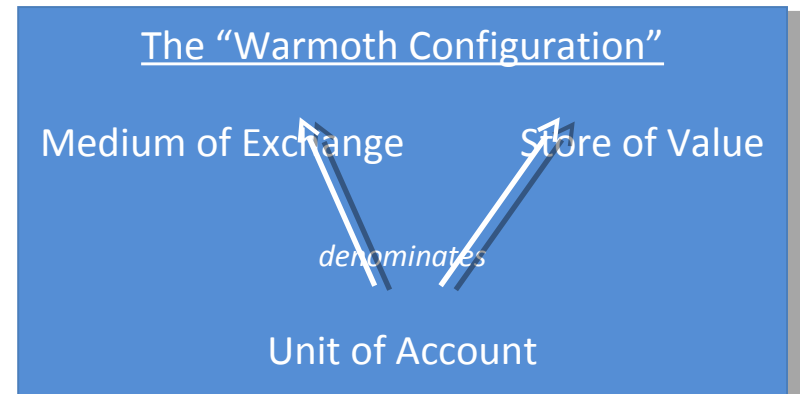
# Architectural Framework for TAU

- This framework explores money, and “money-like” instruments.
- Key characteristics of money and money-like units include:
  - ability to buy things, including other money-like units \*
    - now or in the future
  - existence via agreements
    - to accept for payment
    - granting exchange value (separate from any use value)
  - operation within some conceptual or physical boundary
  - enablement of marketplaces and economies
  - usage as rewards for deeds
  - measuring success and supporting self-esteem and public image

\* Spending one form of money (TAU) for another involves exchange value, whereas spending for non-money involves the mechanism of price, and results in use value

# What do we mean by a “Transaction Agreement Unit” (TAU)?

- To avoid unnecessary controversy and confusion we avoid the overloaded word “money” in this presentation
- We draw on two of the money-like features – they are defined by agreements and facilitate transactions – Transaction Agreement Units (TAU)
- Some things have nicknames, so we won’t necessarily refrain from using terms like “money-form” in conversation
- We recognize that wealth comes in many forms, much not validly treated as “units”. This framework covers only wealth (value) that can be “unitizable”
- Such units are complex and multifarious, hence the need for architectures and this framework
- TAUs represent both:
  - store of value (capital) and
  - value exchange (flow)



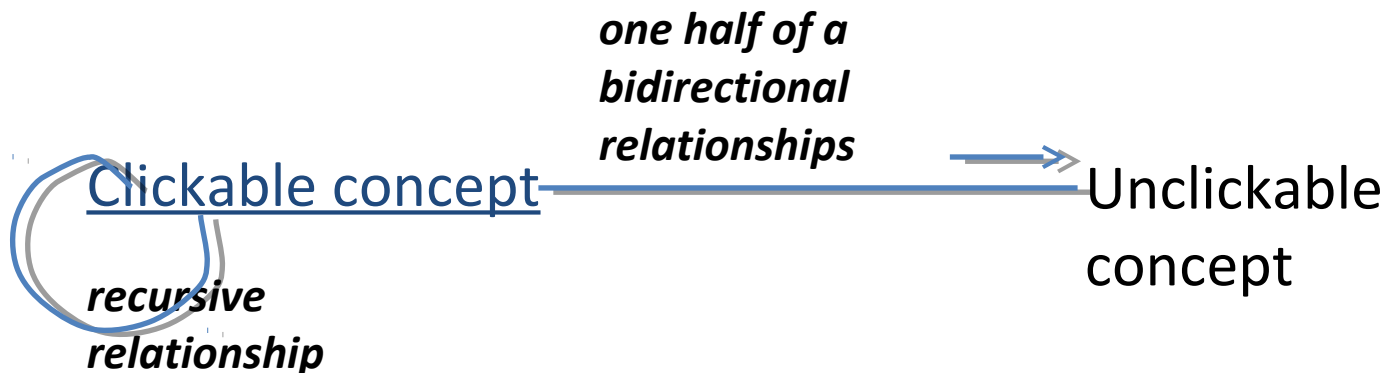
# What do we mean by an “architectural framework”?

- An architecture of something represents the components of the thing, and how it is composed (buildings, naval vessels, software systems, etc.)
- Every money-like form has its own intrinsic architecture, which we seek to be able to expose and understand
- Within communities agreements to trade with specific forms leads to design of local currencies that are based on their own architectures
- An architectural framework provides a set of structures and characteristics that can be used in designing specific architectures, including how they interrelate

# How to read this presentation

- This is best read in screen-show mode to enable internal links to work, assuming that you are using PowerPoint
- You don't need to do anything special if you are reading a .pdf version in order for the internal links to work properly
- Every underlined term takes you to another page, and the "back" arrows return you to an appropriate overview page
- This is a concept and relationship model, similar to a class diagram.

## LEGEND

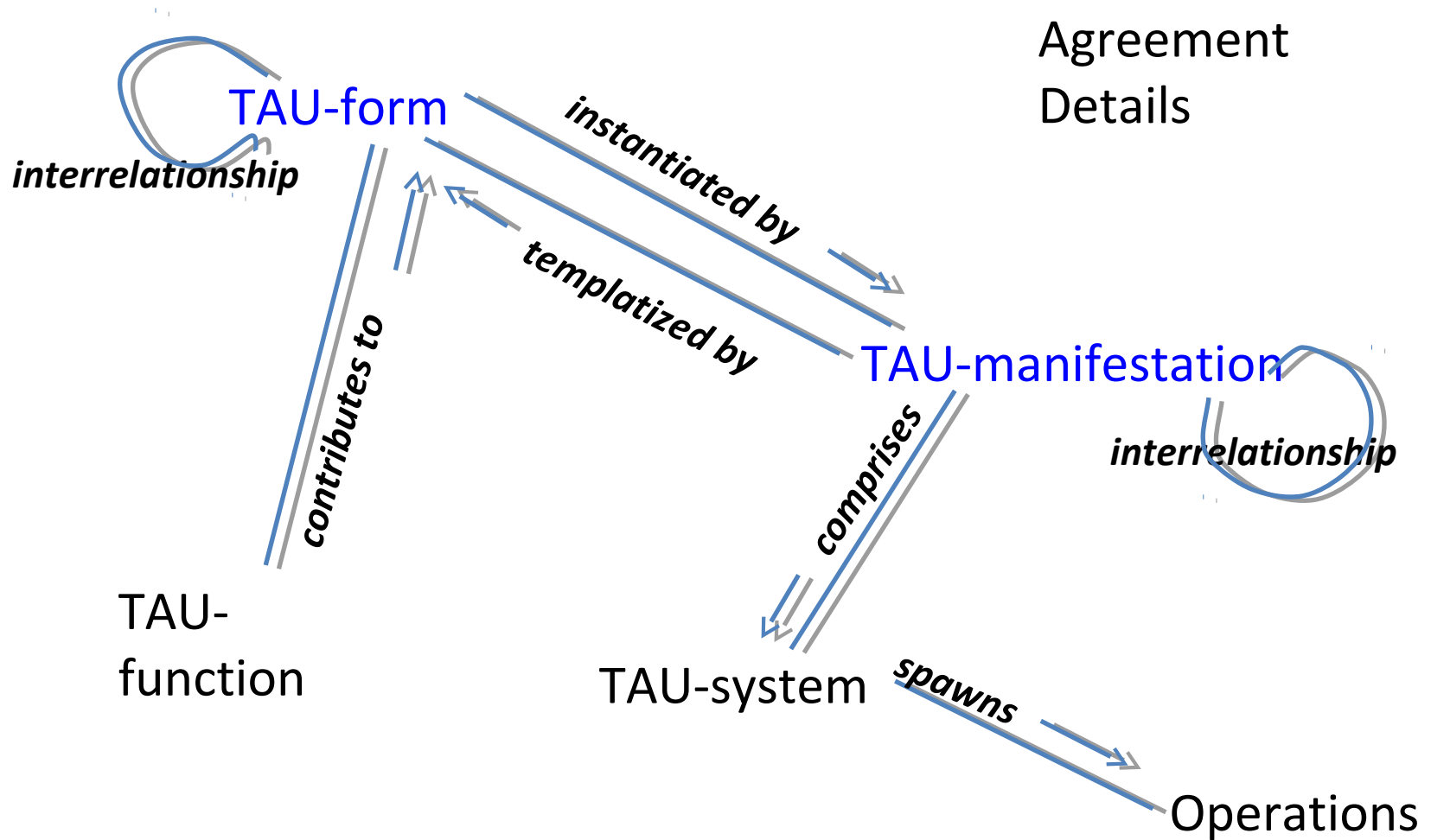


# Known types and examples of TA units

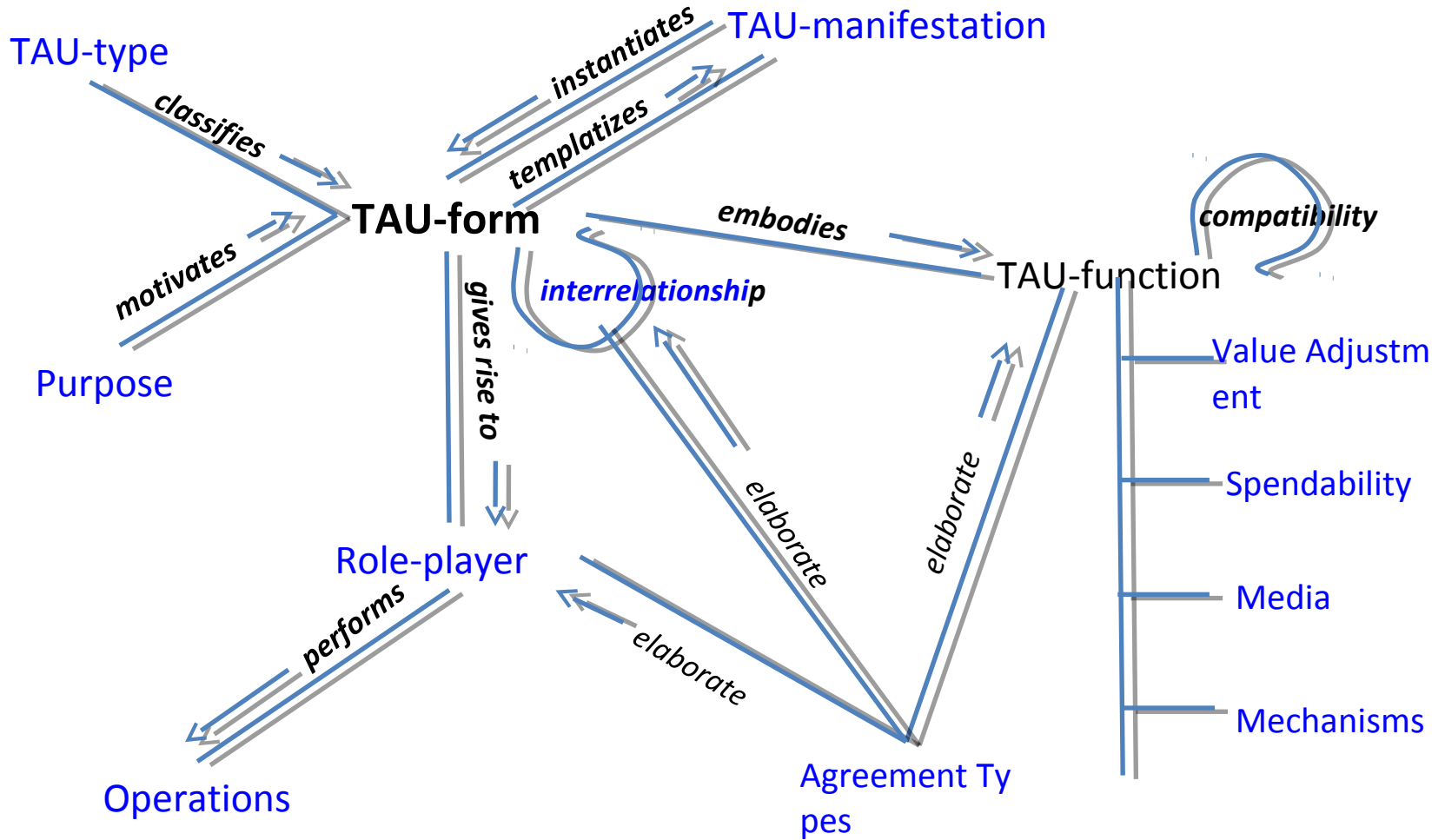
- Legal tender
- Postage stamps
- Food stamps
- Coupons
- Green stamps
- Loyalty points
- Royalties
- Talley sticks
- Indulgences
- Truck system
- Scrip
- Collateral
- Vouchers
- Reciprocal trade (barter)
- Time-banks
- Local Exchange Trading System (LETS)
- WIR
- Corporate securities
  - Shares
  - Options
  - Derivatives
- Market basket
- IOUs
- American Open Currency Standard (AOSC)
- Robert Burk's Rational System
- Participant reward (Kickstarter, e.g.)
- Sribd
- Discounts
- Mortgages
- Credit cards
  - Cash back
  - Teaser rate
- Debit cards
- Personal checks
- eBay
- PayPal
- Letters of credit
- Insurance claims
- Insurance premiums
- Tokens
  - Turnstile
  - Vending
- Casino chips
- Gift certificates
- Trade-ins
- Attention
  - Eyeballs
  - Click-through
  - Public space
    - Roadside
    - Vehicle outside
    - " inside (bus)
- Reputation points
- Favors
- Donations
- Pawn ticket
- Usufruct
- Money orders
- Traveller's checks
- Guarantees
- Recycling charges
- Premiums
- Lines of credit
- Grants
- Loans
- Micro-loans
- Crowd funding
- Rebates
- Patent
- Copyright
- Library card
- Coffee card
- Condominium "week"
- MintChip
- Kilowatt hour
- Microshare
- Commodities
- Products
- Services
- Energy units
- Futures
- Virtual
  - Games, VW
  - Gloebit
  - Bitcoin
  - Qoin

For more examples, see works by Greco, Lietaer, CC Research, etc.

# High-level framework for Transaction Agreement Units (TAUs)



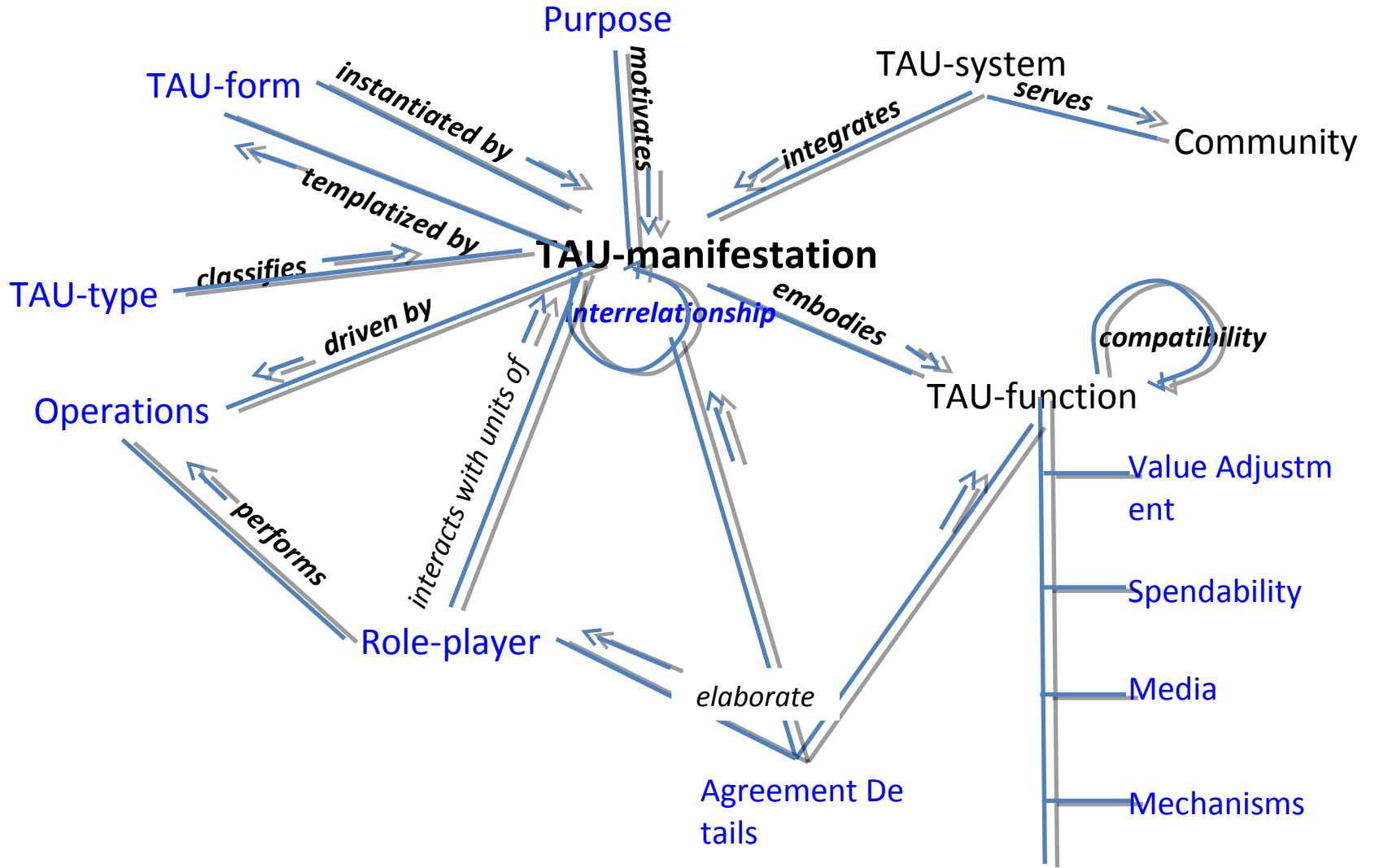
# TAU-Forms



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# TAU-manifestation





# Purposes (for spending/for accepting)

- Community purposes
  - Retain money circulation within the boundaries of a particular community
  - Increase velocity of circulation
  - Build ownership loyalty via capital-focused wealth-unit
  - Internal reward system
  - Create liquidity where there is a shortage of liquidity
- Merchant purposes
  - Good will
  - Marketing
  - Loyalty
  - Niche (investment) marketing
- Member purposes
  - Local discounts
  - Access to unique value propositions
  - Ethical urgings
  - Improve talent capability
  - Mentoring
  - Problem definition
  - Performance of capabilities

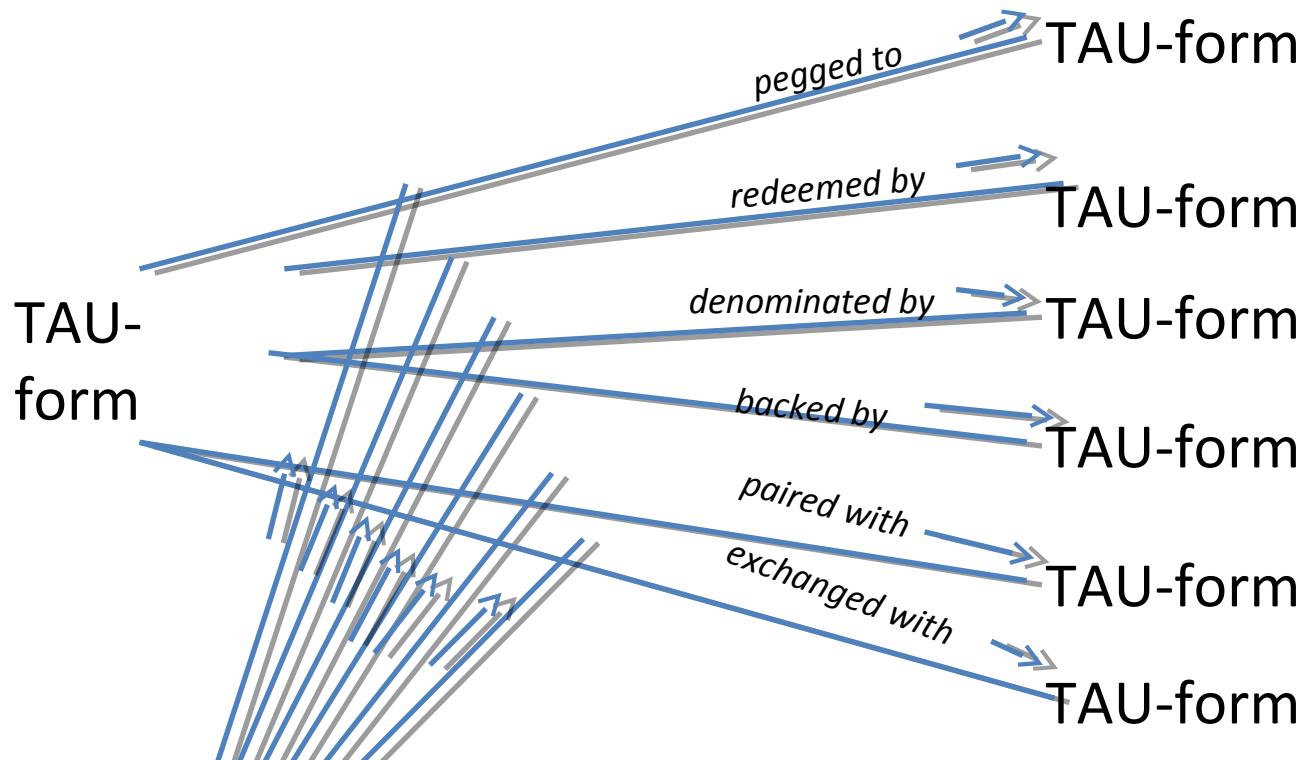
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**Top**

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**Back**

# TAU-form to TAU-form relationships

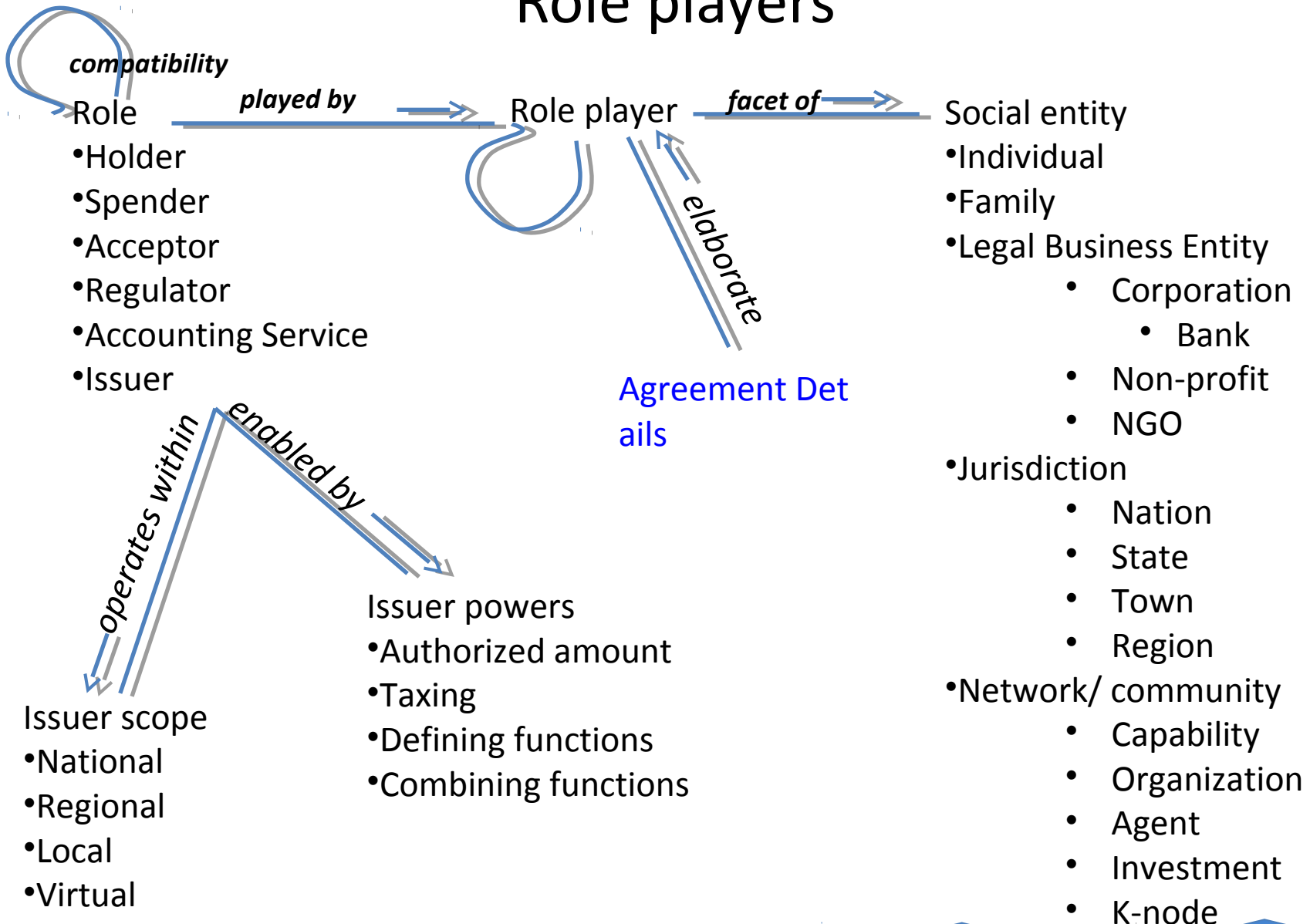


*elaborate*

Agreement Details



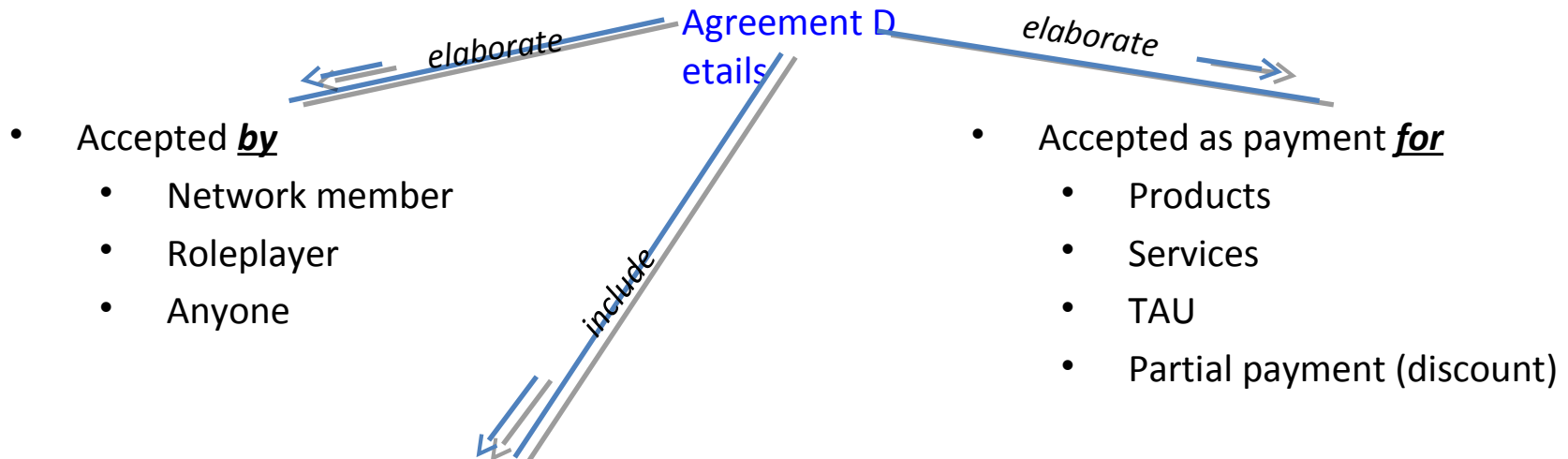
# Role players



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# Spendability (fungibility)



## Spending Agreement conditions

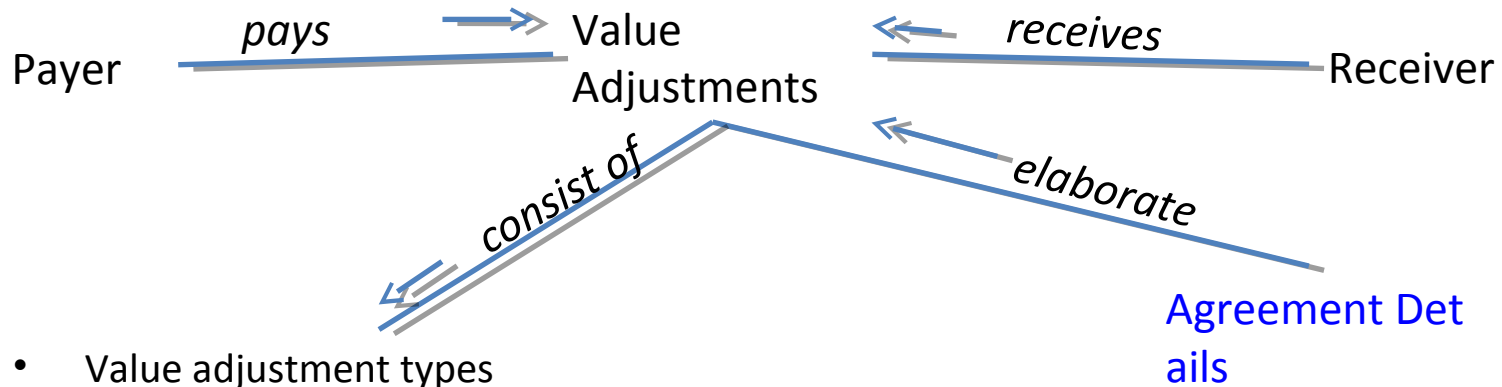
- Personally spendable
  - Free spend
  - Coerced spend
- Investment
  - Locked
  - On-demand accessibility
- Single use
- Transferability
- Divisibility
- Defacement

To accept a unit of a TAU-form in payment is to accept a network of agreements

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# Value Adjustment



- Value adjustment types
  - Accounting system support
    - Membership fee
    - Transaction fee
    - Reporting fee
    - Incentive payment
  - Participant exchange adjustments
    - Interest
    - Collateral
  - Jurisdiction impositions
    - Demurrage
    - Tax
    - Seignorage
  - Mechanism cost
    - Storage
    - Security

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# TAU mechanisms

	Exchange mechanism	Storage mechanism
Physical	<ul style="list-style-type: none"><li>• Deliver physical item</li><li>• Pay point</li><li>• Mobile device</li><li>• Shown ID</li></ul>	<ul style="list-style-type: none"><li>• Vault</li><li>• Refrigeration</li><li>• Warehouse</li><li>• Document</li></ul>
Intangible	<ul style="list-style-type: none"><li>• File transfer</li><li>• Smart phone app<ul style="list-style-type: none"><li>• M-Pesa</li></ul></li><li>• Computer UI</li></ul>	<ul style="list-style-type: none"><li>• Database</li><li>• Mind</li></ul>



# TAU media

## Symbolic

- Coins
- Bills
- Punch card
- Electronic swipe card

## Utilitarian

	Consumable	Containment
Needed	Calories	Shelter
Desired	Fine foods	Fashion

may be

may be

## Service

	Recipe	Performance
Generic performers		
Named performers		Availability (days, hours, etc.)

## Commodity / Product

	Grown	Made
Durable		
Perishable		



# Operations

Agreement  
Details

elaborate

- User processes
  - **Create / Destroy** units
  - Spend units
  - Accept units
  - Hold units
  - Redeem units
  - Exchange units
- **Accounting**
- Administrative processes
  - Agreement
    - Creation
    - Enforcement
  - TAU-Form processes
    - Create template
    - Accept template
  - TAU-manifestation processes
    - Clone template
    - Modify template

**Top**

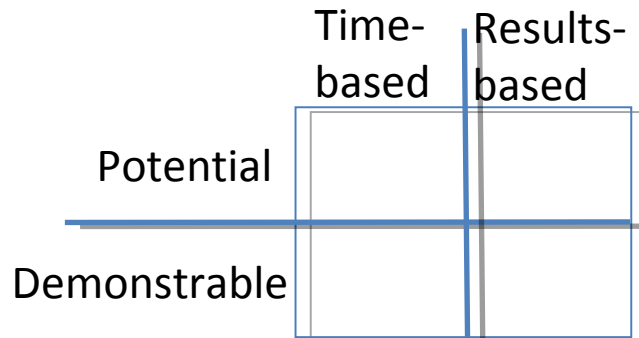
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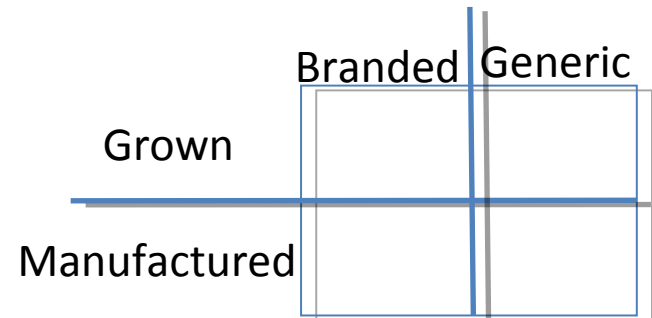
# Creation / Destruction

## Creation

- Loaned into circulation
  - Interest-bearing debt
  - Mutual credit
- Spent into circulation
- Gifted into circulation
- Exchanged into circulation
- Mined and assayed into circulation
- Stolen into circulation
- Swindled into circulation
- Performed into circulation



- Something put at risk
- Born as TAU
- Something becomes TAU



## Destruction

- Redeemed
- Demurraged
- Spend-once
- Hyperinflation



# Accounting

## Accounting features and actions

- Create entry
- Calculate account balance
- Calculate network capital
- Perform network audit
- Allow negative balance
- Transparency - auditability
  - Of use
  - Of creation
  - Of validity
  - Of amount in circulation

## Account ownership types

- Personal
- Merchant
- Community
- Jurisdiction



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# Agreement types for TAU

## Agreement types

are enacted by

→ Agreement De  
tails

- Formative
  - Match purposes
    - of community
    - of roles within the community
    - with purposes of the TAU instance or system
  - Characteristics of form, instance or system
- Membership
  - Role expectation
  - Agreement to conform
- Cooperative
  - Included cooperations
  - Excluded cooperations

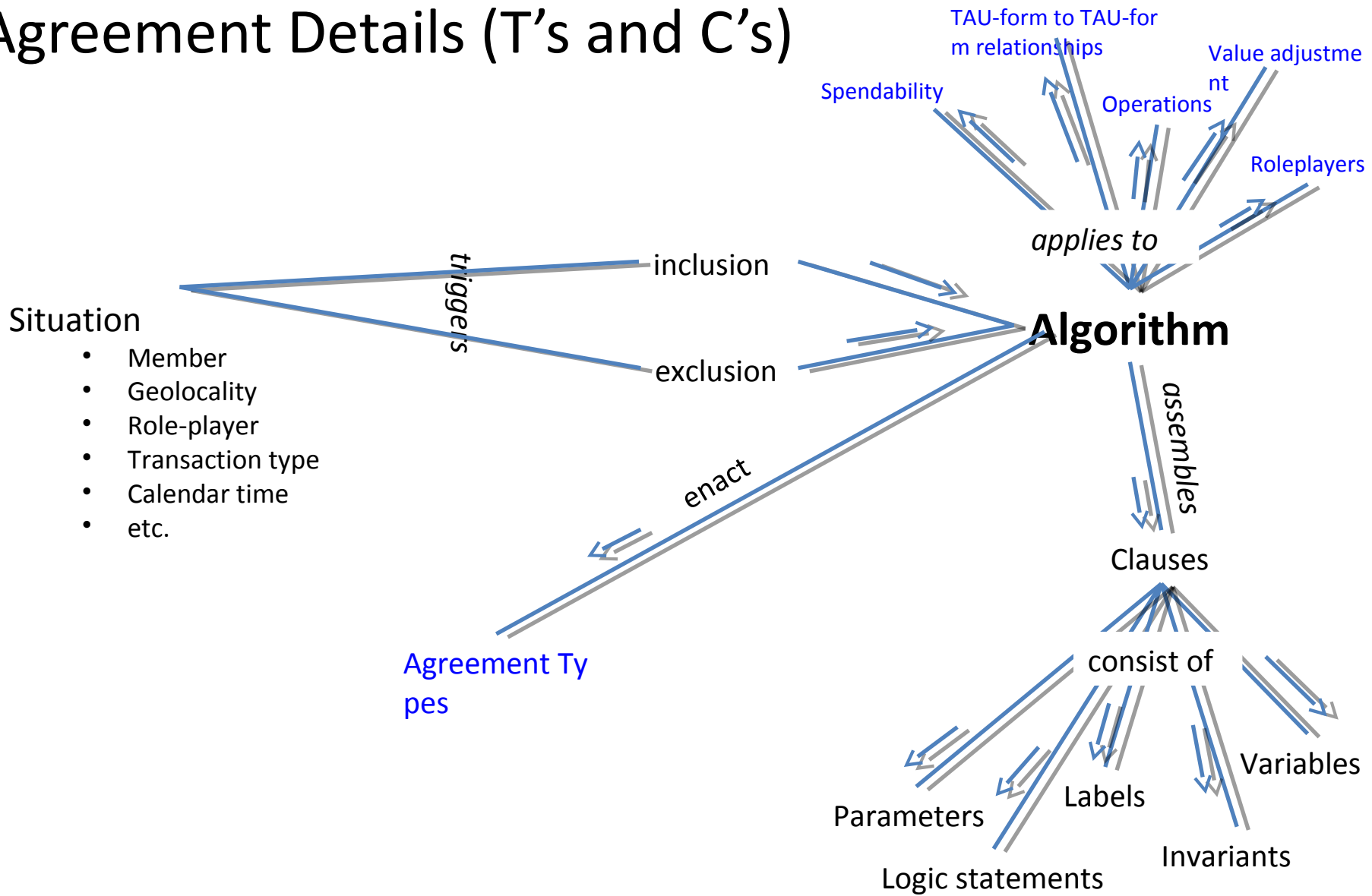
## General stipulations

- Contract enforcement
- Expiration (longevity)

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# Agreement Details (T's and C's)



# Purposes at TAU-manifestation level – Academy of Enterprise Study and Practice (AESaP)

- Community purposes
  - Attract top talent into community of practice
  - Retain top talent indefinitely
  - Create and refine valuable intellectual property
  - Perform innovative engagement work
- Agent purposes
  - Build relationships with top talent
  - Understand leading edge practices
  - Place talent on engagements with leading edge clients
- Member purposes
  - Learn from peers
  - Teach peers
  - Build advanced IP
  - Practice on interesting engagements
  - Practice with innovative team members

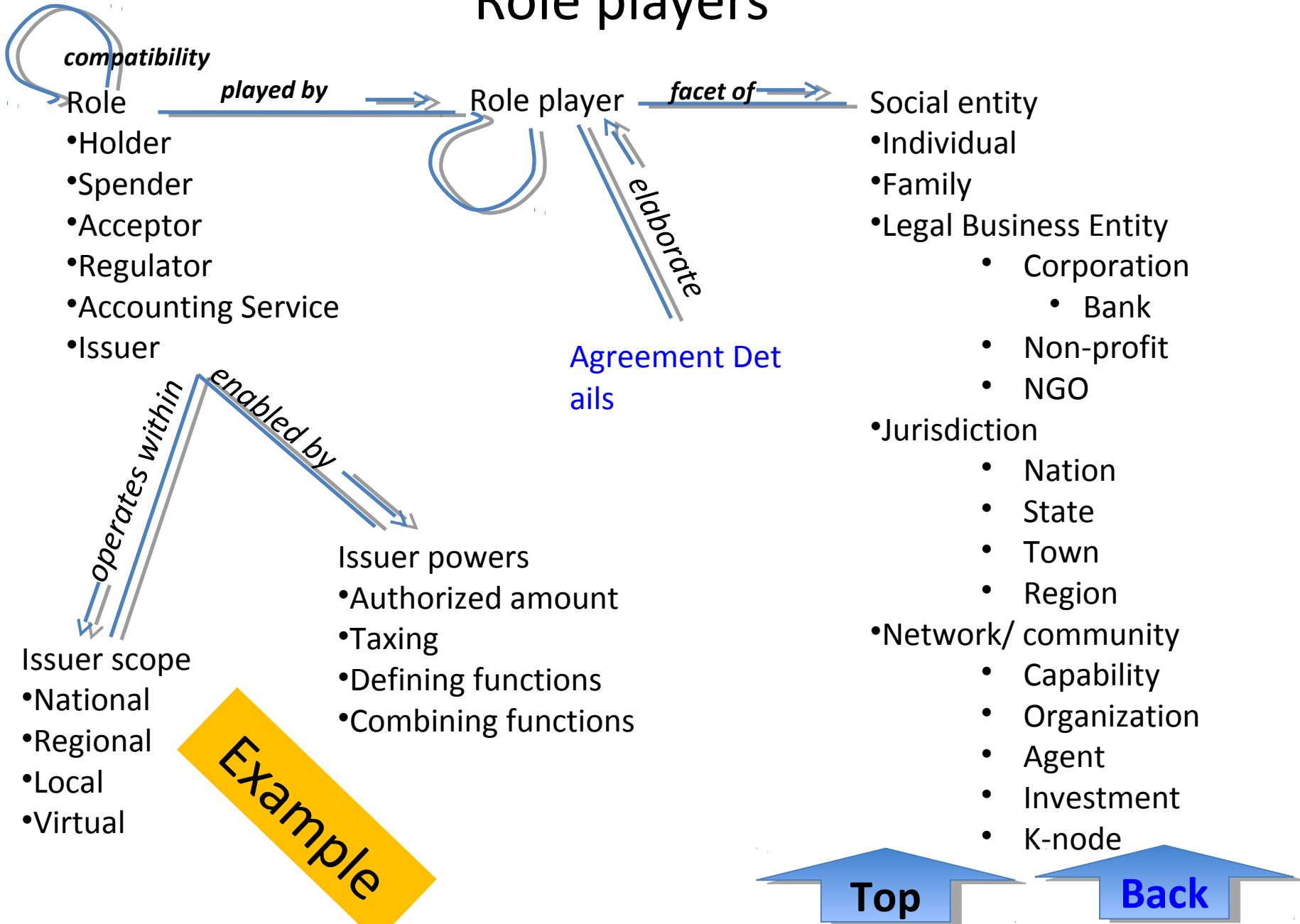
Example

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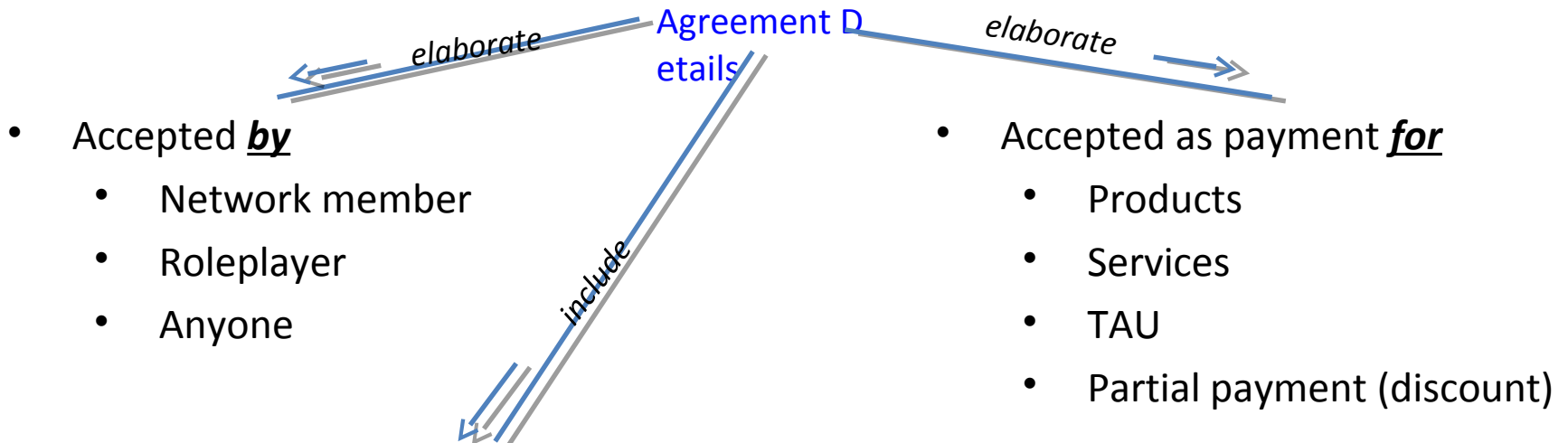
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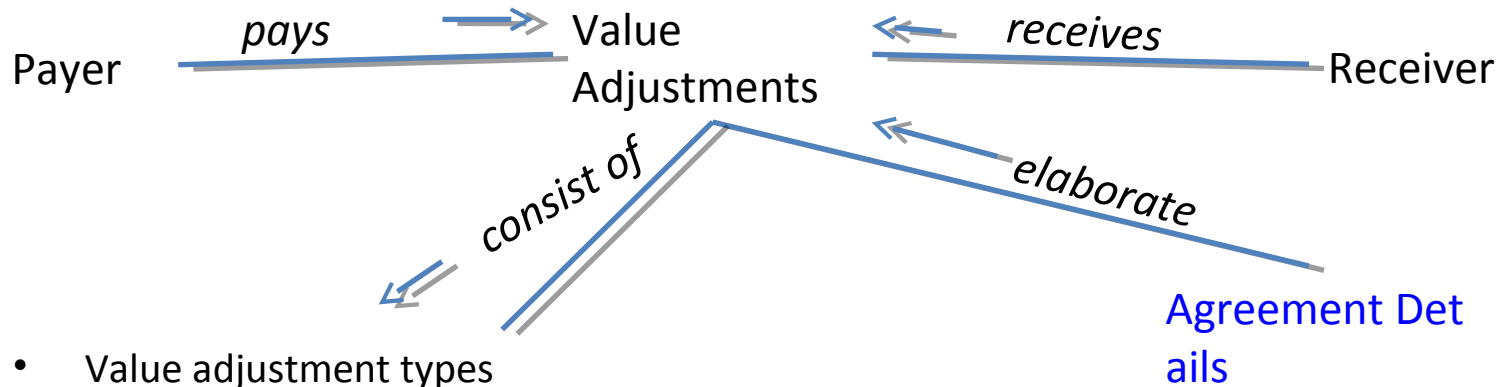
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Utilitarian

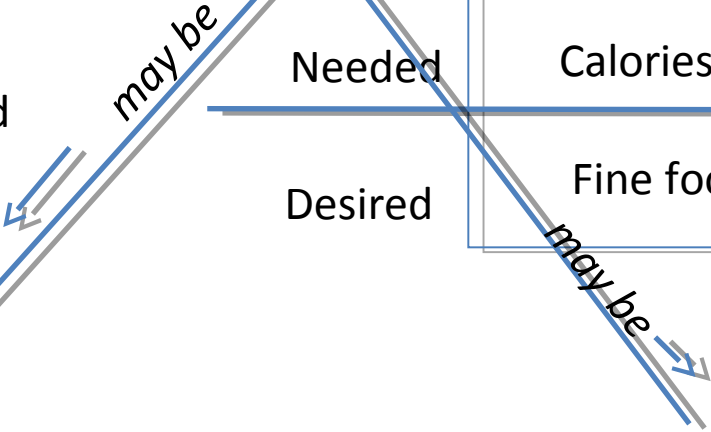
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**Example**



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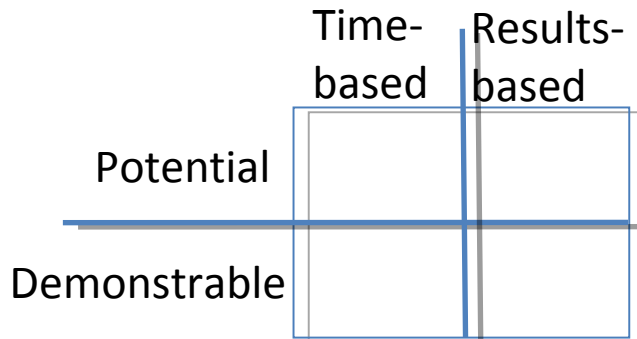
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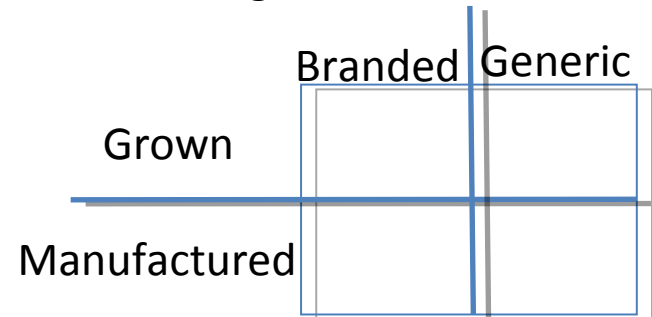
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Example

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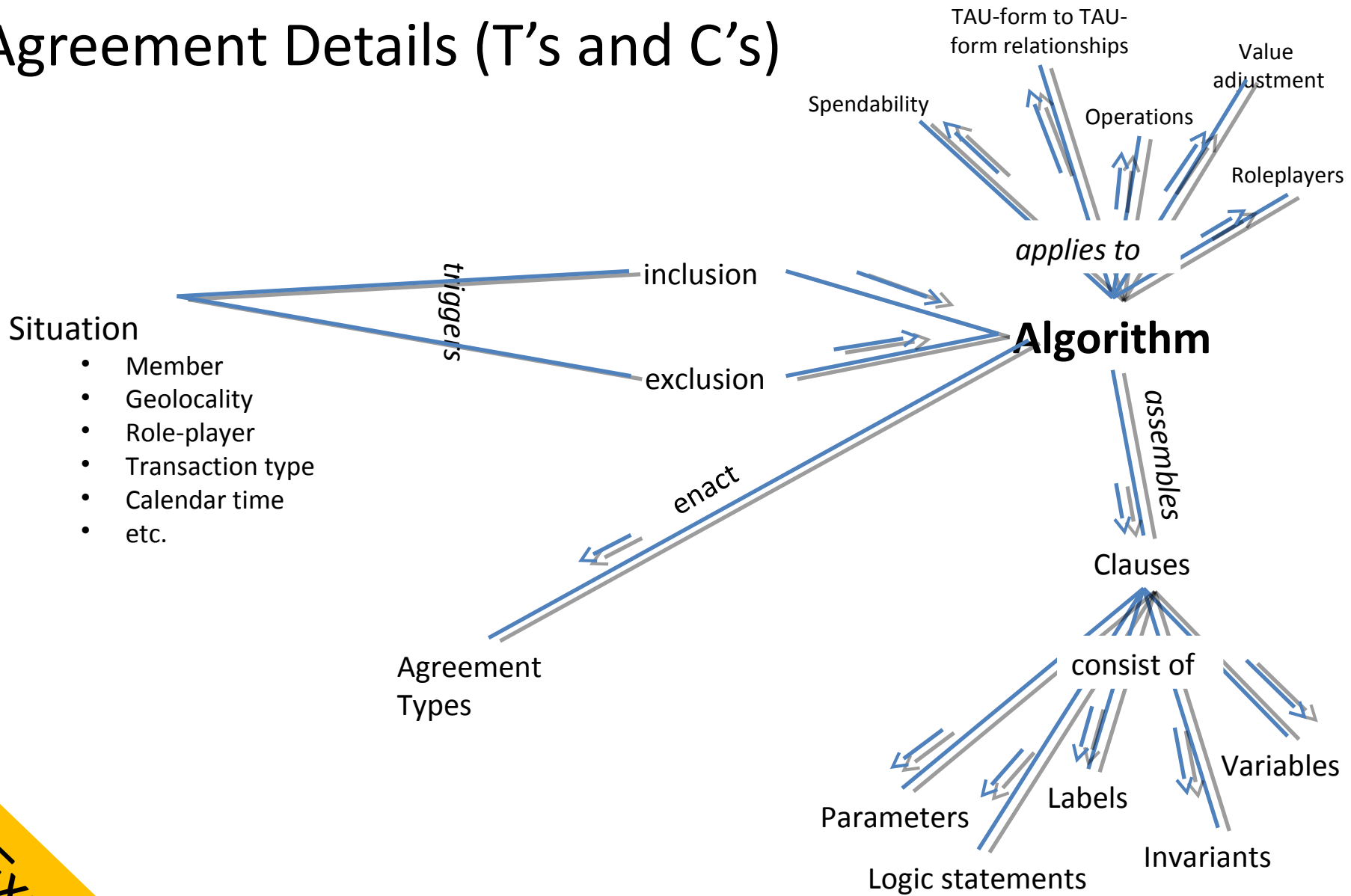
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# Agreement Details (T's and C's)



Example





# Known examples of TAU types

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- Food stamps
- Coupons
- Green stamps
- Loyalty points
- Royalties
- Collateral
- Vouchers
- Reciprocal trade (barter)
- Time-banks
- Local Exchange Trading System (LETS)
- Corporate securities
  - Shares
  - Options
  - Derivatives
- Market basket
- IOUs
  - Promise to pay
  - Promise to perform
  - Instant reward (Kickstarter, e.g.)
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- Mortgages
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- Premiums
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- Loans
- Micro-loans
- Crowd funding
- Rebates
- Library card
- Coffee card
- Condominium "week"
- Commodities
- Products
- Services
- Energy units
- Futures
- Virtual
  - Game

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