



#### History of digital - and cryptocurrencies











#### Types of digital - and cryptocurrencies



#### **Merchant based**









#### **Bank based**





#### Tech based



#### Big tech based



#### **Central Bank based**

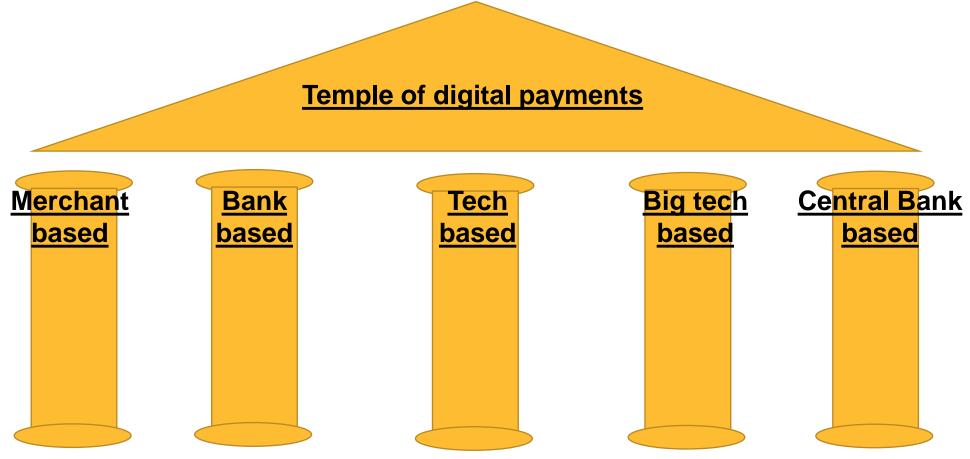






#### EU consultation appears to position like this





#### Design issues considered



- Intended/expected usage (use cases)
- Account based bearer based
- Offline use
- Security and auditability
- Openness and inclusivity
- Privacy and surveillance
- Acceptance standards
- Fee structure and competition
- Who should issue/distribute

Contribution ID: 878d3277-c1e9-45b6-be67-af5244e2a648 Date: 14/06/2022 01:26:40

Targeted consultation on a digital euro

#### Form ever follows function





It is the pervading law of all things organic and inorganic, of all things physical and metaphysical, of all things human, and all things super-human, of all true manifestations of the head, of the heart, of the soul, that the life is recognizable in its expression, that form ever follows function.

This is the law.

Louis Sullivan

#### Main policy objectives: what are they?



The current design features and thinking in the EU consultation on the EU Central Bank Digital Currency contains both operational and strategic objectives

So let's zoom-out: how did we get here in the first place?



The current design features and thinking in the EU consultation on the EU Central Bank Digital Currency contains both operational and strategic objectives

So let's zoom-out: how did we get here in the first place?





The current design features and thinking in the EU consultation on the EU Central Bank Digital Currency contains both operational and strategic objectives

So let's zoom-out: how did we get here in the first place?



Private Sector – world wide Full of personal details Value/payment mechanism Monetary (scale) impact Systemic impact



The current design features and thinking in the EU consultation on the EU Central Bank Digital Currency contains both operational and strategic objectives

So let's zoom-out: how did we get here in the first place?



Private Sector – world wide Full of personal details

Value/payment mechanism Monetary (scale) impact Systemic impact

**ALTERNATIVES?** 





The current design features and thinking in the EU consultation on the EU Central Bank Digital Currency contains both operational and strategic objectives

So let's zoom-out: how did we get here in the first place?



Private Sector – world wide Full of personal details Value/payment mechanism Monetary (scale) impact Systemic impact

**ALTERNATIVES?** Equally intrusive, thanks to the (self-inflicted) mass surveillance regime of the **FATF-project** 



#### Money and payments – held hostage?



The current design features and thinking in the EU consultation on the EU Central Bank Digital Currency contains both operational and strategic objectives

So let's zoom-out: how did we get here in the first place?

Consent by FIU to the performance of a transaction

- Obliged entities shall refrain from carrying out transactions which they know or suspect to be related to proceeds of criminal activity or to terrorist financing until they have completed the necessary action in accordance with Article 50(1), second subparagraph, point (a), and have complied with any further specific instructions from the FIU or other competent authority in accordance with the applicable law.
- Where refraining from carrying out transactions referred to in paragraph 1 is impossible or is likely to frustrate efforts to pursue the beneficiaries of a suspected transaction, the obliged entities concerned shall inform the FIU immediately afterwards.

#### **Money and payments – held hostage!**



The current design features and thinking in the EU



War in Ukraine

+ Add to myFT

Visa, Mastercard and American Express suspend operations in Russia

Move by payment networks worsens country's financial isolation over Ukraine



atterwards.

Digital Currency jic objectives

re in the first place?

ance of a transaction

which they know or suspect to be related to proceeds of ompleted the necessary action in accordance with Article vith any further specific instructions from the FIU or other

in paragraph 1 is impossible or is likely to frustrate efforts pliged entities concerned shall inform the FIU immediately

#### Money and payments – held hostage and more!



The current design features and t

 $\equiv$ 

#### FINANCIAL TIMES

War in Ukraine

+ Add to myFT

Visa, Mastercard and American Express suspen operations in Russia

Move by payment networks worsens country's financial isolation over Ukr



afterwards.

BUSINESS INSIDER

ONDERNEMEN

TECH

INANCE

CARRIÈRE

OTUA

PR

### Questions tracing back to bank protests in Zhengzhou

In April, four local banks in Henan, the province that Zhengzhou is in, announced they would be freezing deposits, cutting off hundreds of thousands of people from an estimated \$6 billion of their money, per the BBC.

In recent weeks, people have been taking to the streets in Zhengzhou and Henan, calling for authorities and banks to return their money.

Earlier this week, dozens of people traveled to Zhengzhou to participate in a protest. But upon arriving in Zhengzhou and scanning QR codes at train stations, buildings, or hotels, they said their health codes turned red. People detailed their experiences to outlets including <a href="Reuters">Reuters</a>, <a href="Bloomberg">Bloomberg</a>, and several Chinese news outlets.

One Beijing-based tech professional, Liu, told  $\underline{\text{CNN}}$  he arrived in Zhengzhou on Sunday with a green health code. He was planning to demand that one of the banks release \$890,000 of his deposits. But his code flashed red at Zhengzhou's train station, and he was escorted to a quarantine hotel, where he said he saw about 40 other people whose health codes had also turned red.

•



Design consideration:

One must assume that all governments will at some point in time of history will intrude on the human rights of their citizens in a disproportionate and harmful way



#### Design consideration:

One must assume that all governments will at some point in time of history will intrude on the human rights of their citizens in a disproportionate and harmful way

Werkwijze Belastingdienst in strijd met de wet en

discriminerend

Persbericht / 17 juli 2020

Categorie: Belastingdienst,

Afdeling Toeslagen van de Belastingdienst had de (dul van aanvragers van kinderopvangtoeslag niet zo moge jarenlang gebeurde. Deze verwerkingen waren onrech discriminerend en daarmee onbehoorlijk – zware over privacywet, de Algemene verordening gegevensbesch blijkt uit onderzoek van de Autoriteit Persoonsgegeve

## Boete Belastingdienst voor zwarte lijst FSV

#### Kabinet erkent institutioneel racisme bij de Belastingdienst

**Toeslagenaffaire** Staatssecretaris Van Rij noemt het een "uiterst pijnlijke" conclusie. Welke wijzigingen de fiscus gaat doorvoeren om een nieuw toeslagenschandaal te voorkomen, is nog niet bekend.







Categorie:

Belastingdienst, Zwarte lijst,

Overheid & de AVG

nsgegevens (AP) legt de Belastingdienst een boete op
De Belastingdienst krijgt deze boete vanwege de
erwerking van persoonsgegevens in de Fraude
ing (FSV). Dat was een zwarte lijst waarop de
alen van fraude bijhield. Met vaak grote gevolgen voor
ht op de lijst stonden.



Design consideration:

One must assume that all governments will at some point in time of history will intrude on the human rights of their citizens in a disproportionate and harmful way

Design question:

Do we want to allow digital government money to become a political instrument against its future citizens?





BANKEN

17 juni

#### Raad van State legt bom onder wetsvoorstel aanpak witwassen

#### Design question:

Do we want to allow digital government money to become a political instrument against its future citizens?

De massale schaal waarop banktransacties gezamenlijk zullen worden gemonitord, is ongekend en betekent een vergaande inbreuk op de vertrouwelijkheid van zakelijke en particuliere cliëntgegevens. Daarbij gaat het niet alleen om een vergaande inbreuk op het recht op privacy, deze monitoring kan ook leiden tot uitsluiting en discriminatie. De noodzaak en proportionaliteit van de gezamenlijke transactiemonitoring is niet aangetoond. Daarbij komt dat de rechtsbescherming in het geding is. Het wetsvoorstel voorziet niet in passende maatregelen ter bescherming van de rechten en vrijheden van burgers en bedrijven maar laat het regelen daarvan over aan de banken. De Afdeling adviseert daarom de grondslag voor de gezamenlijke transactiemonitoring te schrappen en van gezamenlijke transactiemonitoring af te zien.



#### Design consideration:

One must assume that all governments will at some point in time of history will intrude on the human rights of their citizens in a disproportionate and harmful way

#### Design question:

Do we want to allow digital government money to become a political instrument against its future citizens?

#### Important consideration:

Me must trust our ability to solve any other of the policy problems we have via other regulatory and policy tools so we don't resort to ill quick fixes as mass-monitoring transactions, freezing payments and such.

#### Main strategic challenge: it's a political choice



These design questions are not technical in nature but political.

Therefore the debate should be a matter of political discussion and exchange of thoughts.

In Dutch Parliament, Mahir Alkaya is the leading MP on this topic.

'Who will own our money?'





We need strategic thinking to design our future digital euro from the proper perspective.

However.....

#### Track record of EU in terms of strategic thinking..?



PSD2 was pennywise and poundfoolish: EU does not have a good track record in terms of understanding the strategic and geopolitical impact of regulations in payments.

#### Track record of EU in terms of strategic thinking..?



PSD2 was pennywise and poundfoolish: EU does not have a good track record in terms of understanding the strategic and geopolitical impact of regulations in payments.

Forcing the provision of free open banking by banks without proper reciprocity to force big tech players to do the equivalent at the same time is not really smart

#### Track record of EU in terms of strategic thinking..?



PSD2 was pennywise and poundfoolish: EU does not have a good track record in terms of understanding the strategic and geopolitical impact of regulations in payments.

Forcing the provision of free open banking by banks without proper reciprocity to force big tech players to do the equivalent at the same time is not really smart

By focusing on only 3 authentication features in PSD2 the EU stifled innovation on a behavioural based 4<sup>th</sup> authentication method and handed extra leverage to the platform owners of biometric based methods – big tech players – that further capture and dominate the market

#### Main design considerations



We should not let big tech or other countries force our payment hand and ensure minimum rules of engagement when this digital euro is used within those contexts: the possibility to be pay for bigtech services without the need to have an account and reveal personal identity data.

#### Main design considerations



We should not let big tech or other countries force our payment hand and ensure minimum rules of engagement when this digital euro is used within those contexts: the possibility to pay for bigtech services without the need to have an account and reveal personal identity data.

We must design from the perspective of a digital euro that will last for hundreds of years in a democratic Europe where governments choose to design their payment mechanisms deliberately to not allow any monitoring, oppression and pursuing of specific political objectives in the future.

#### **DESIGN: HUMAN RIGHTS IN FINANCE**



This is not just about: 'privacy-by-design'.

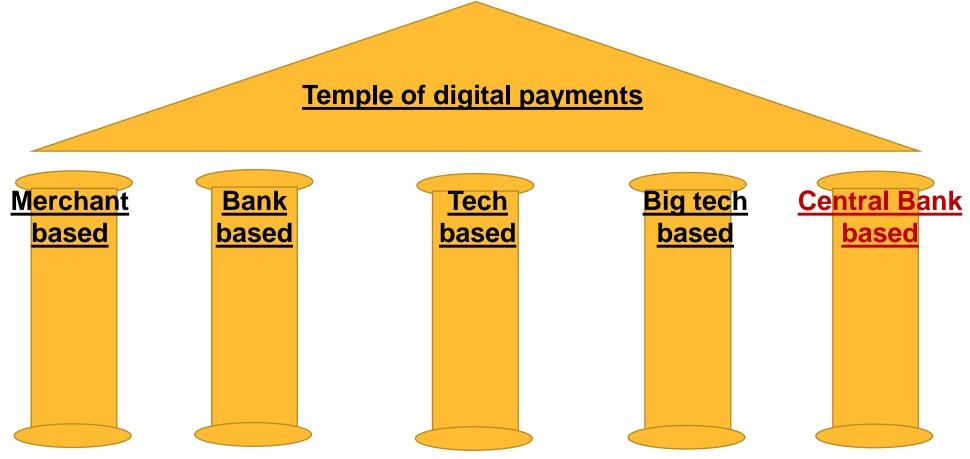
This is about: 'human-rights-by-design'

Privacy as well as ownership as well as presumption of innocence.



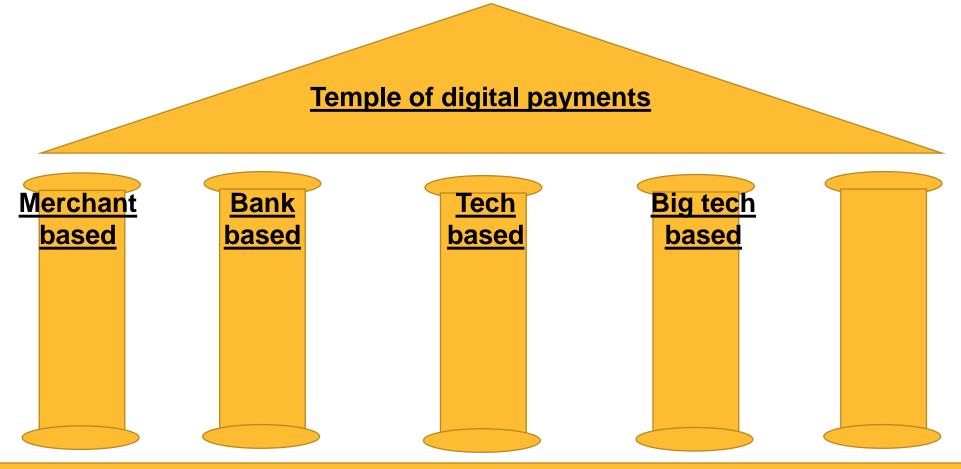
#### EU consultation appears to position CBDC like this





#### The central bank digital euro is a base layer



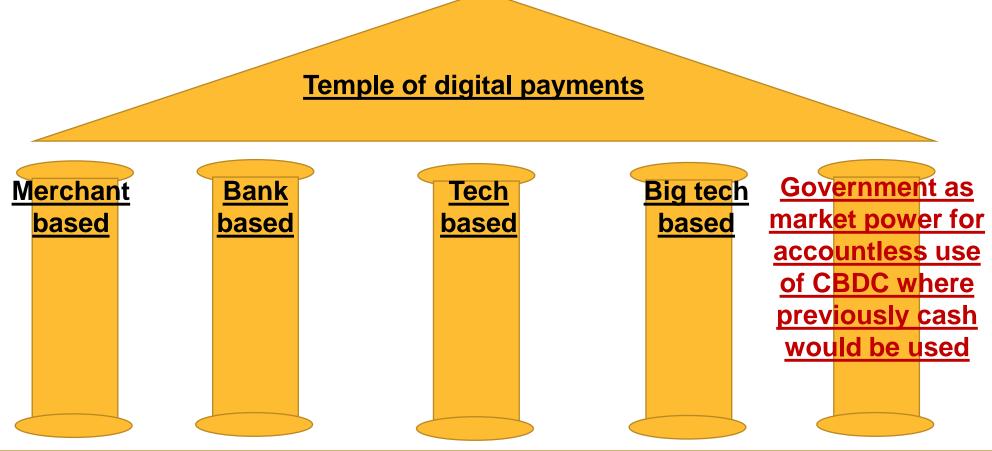


Central Bank based bearer instrument for non-account based use

**CASH PAYMENTS: OFF-LINE, ANONYMOUS, UNMONITORED** 

#### Governments must shape market use themselves!



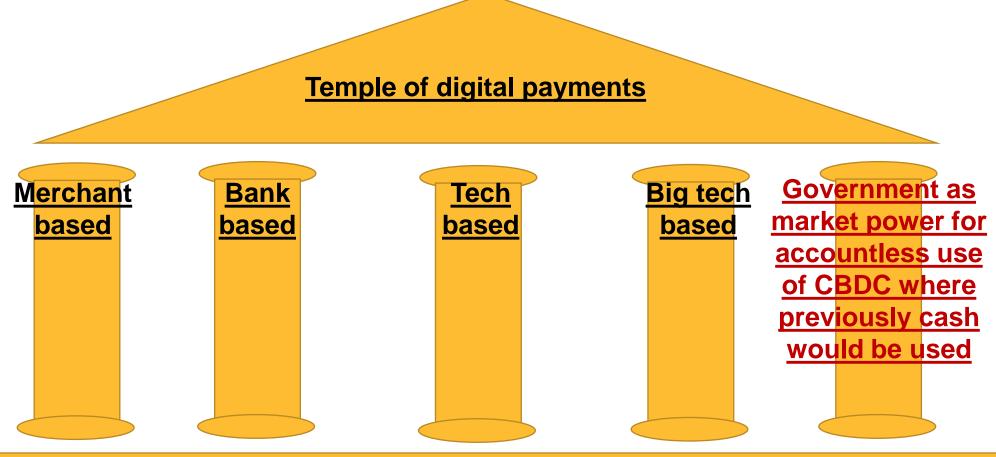


Central Bank based bearer instrument for non-account based use

**CASH PAYMENTS: OFF-LINE, ANONYMOUS, UNMONITORED** 

#### **Governments must shape in EU-context**



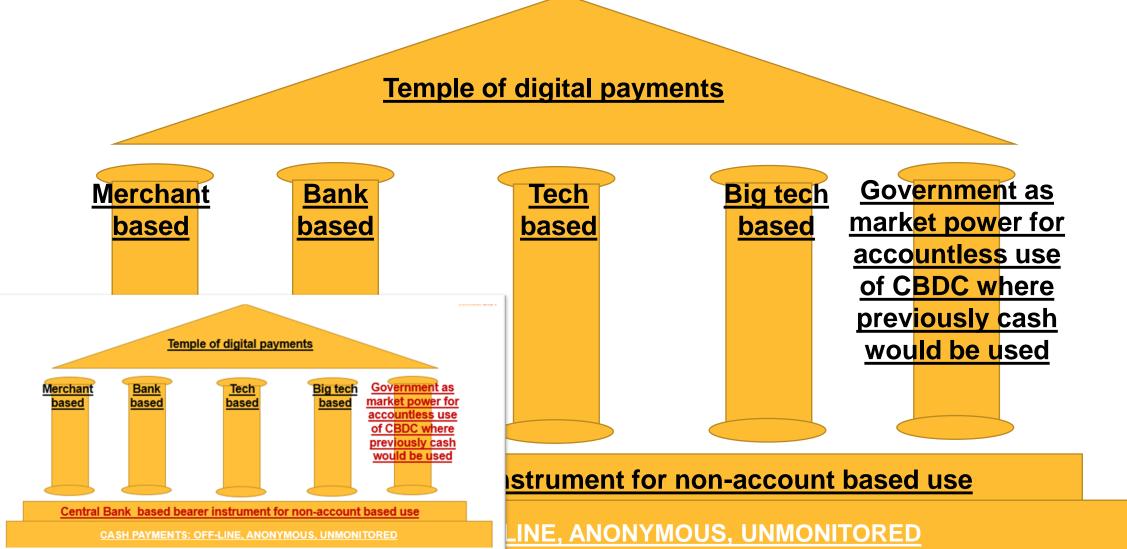


Central Bank based bearer instrument for non-account based use

**CASH PAYMENTS: OFF-LINE, ANONYMOUS, UNMONITORED** 

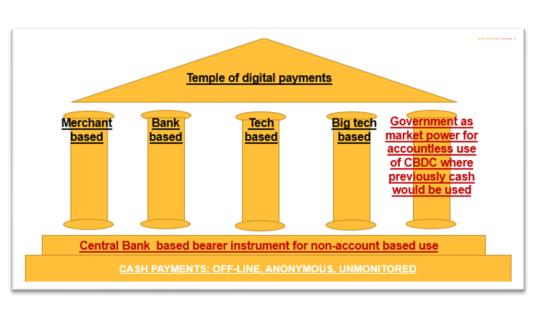
#### **Governments must shape in EU-context**





#### **Governments must shape in EU-context**





3

#### **Governments must shape in UN-context**



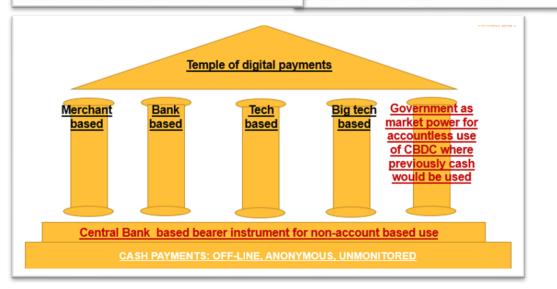


Fight against money laundering and terrorist financing:

Press release | 24 July 2019 | Brussels

#### **Data protection**

Rules for the protection of personal data



3

#### Governments and companies apply UN-principles





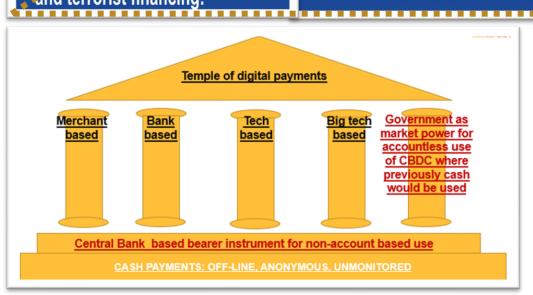


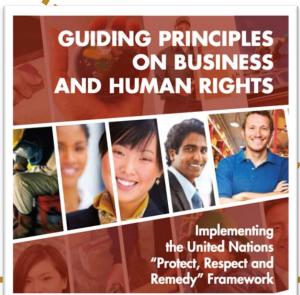
European Commission

Fight against money laundering and terrorist financing:

#### **Data protection**

Rules for the protection of personal data



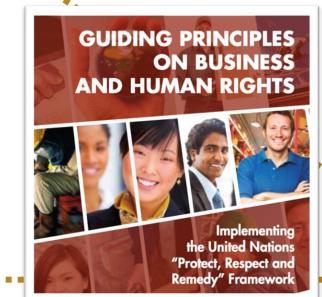


#### Governments and companies apply UN-principles









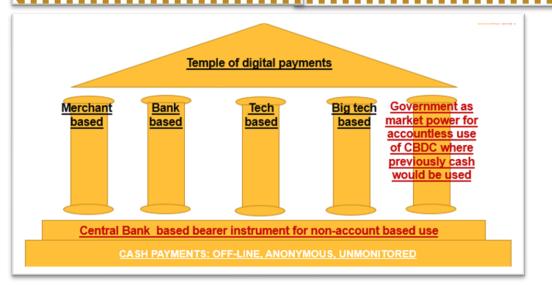
Fight against money laundering and terrorist financing:

#### **Data protection**

European

Commission

Rules for the protection of personal data



The right to privacy in the digital age : resolution / adopted by the Human Rights Council on 26 September 2019



UN. Human Rights Council (42nd sess. : 2019 : Geneva)



2019

#### To sum up



1



"Een door de overheid uitgegeven digitale euro moet, omwille van een duurzame democratie, net zo bruikbaar, onprogrammeerbaar en anoniem zijn als contant geld."

#### To sum up



1



"Een door de overheid uitgegeven digitale euro moet, omwille van een duurzame democratie, net zo bruikbaar, onprogrammeerbaar en anoniem zijn als contant geld."

2

Take the UN-resolution to heart when designing DBC/DLT solutions and always apply: 'human-rights-by-design' based on context of your application

#### To sum up



1



"Een door de overheid uitgegeven digitale euro moet, omwille van een duurzame democratie, net zo bruikbaar, onprogrammeerbaar en anoniem zijn als contant geld."

2

Take the UN-resolution to heart when designing DBC/DLT solutions and always apply: 'human-rights-by-design' based on context of your application



# HUMAN RIGHTS IN FINANCE .EU LINE Finance Initiative Changing france, financing change



## HUMAN RIGHTS IN BLOCKCHAIN



