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In Search of Effective Taxation of Digital Assets and Decentralized economic activity – A Review of Taxation Models

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* Ideas presented in this presentation are derived from the author's own research and are not an expression of any views of non-academic institutions in which the author is employed.

Doctoral research - some of the hypotheses

H2	Economic activities undertaken by entities in a tokenized economy based on blockchain technology (DLT) generate economic value.
H3	With respect to at least some of these economic activities, it is possible to assign by analogy relevant events outside the tokenized economy that are included as the subject of taxation in the tax system.
H4	Treating similar activities differently depending on whether they are undertaken in a tokenized or traditional economy leads to inequality in taxation.

Effective Taxation of Digital Assets and Decentralized economic activity – building blocks



CHALLENGES RESULTING FROM THE NATURE OF CRYPTO-ASSETS

CHALLENGES	FOR TAX TRANSPARENCY
(pseudo-)anonymity	Crypto-Assets can be transferred and held without interacting with traditional financial intermediaries and without any central administrator having full visibility on either the transactions carried out, or the location of Crypto-Asset holdings.
decentralized nature of crypto-assets	
lack of centralised control	



RESULTS

- a significant risk that recent gains in global tax transparency will be gradually eroded
- makes it difficult for Member States' tax administrations to ensure tax compliance

TAX TRANSPARENCY - OECD – CRYPTO ASSETS REPORTING FRAMEWORK & UE – DAC8

i) the scope of Crypto-Assets to be covered

Crypto-Assets which can be used for payment or investment purposes



ii) the Entities and individuals subject to data collection and reporting requirements



iii) the transactions subject to reporting, as well as the information to be reported in respect of such transactions

Exchange transactions and transfer

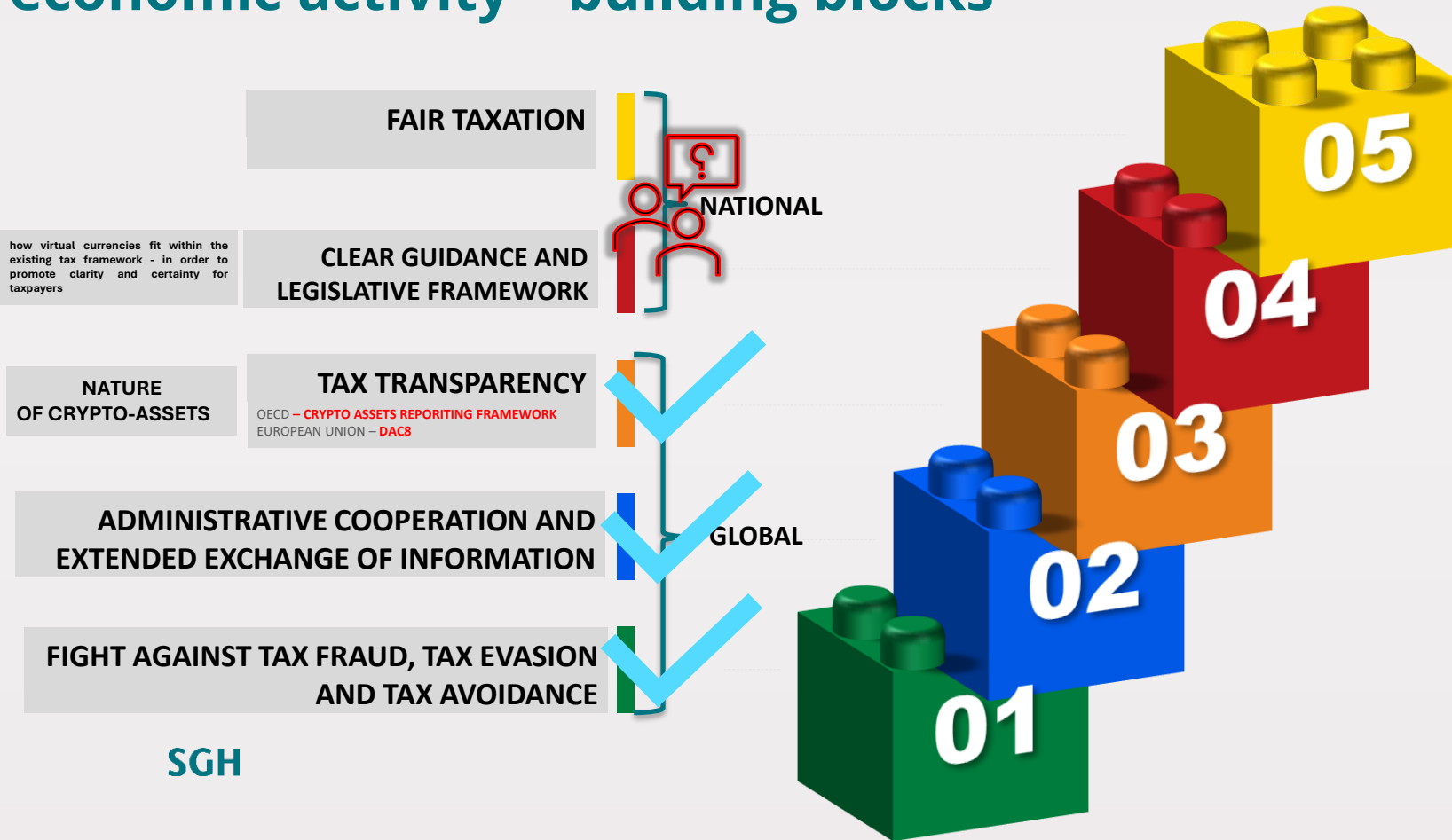


iv) the due diligence procedures to identify Crypto-Asset Users and Controlling Persons and to determine the relevant tax jurisdictions for reporting and exchange purposes



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Effective Taxation of Digital Assets and Decentralized economic activity – building blocks



CHALLENGES	Source
„(...) the problem that the economic activities surrounding crypto-assets and blockchain technology cause for tax law. At a fundamental level, tax law relies on the ability to place assets and income into categories in order to determine their tax treatment. Crypto-assets does not fall neatly into these categories. It is not clearly legible to the state , making uncertain the appropriate tax treatment of trillions of dollars of wealth being created in the crypto space.”	Parsons, Amanda, Cryptocurrency, Legibility, and Taxation
"The particular characteristics of cryptocurrency transactions are irreconcilable with the existing provisions of tax law, which lag behind the dynamic development and ongoing emergence of new forms of taxpayers' economic activity. "	Regional Administrative Court
„ hybrid characteristics (i.e. including both aspects of financial instruments and intangible assets)”	OECD

CLEAR GUIDANCE – POLICYMAKERS MAY CONSIDER

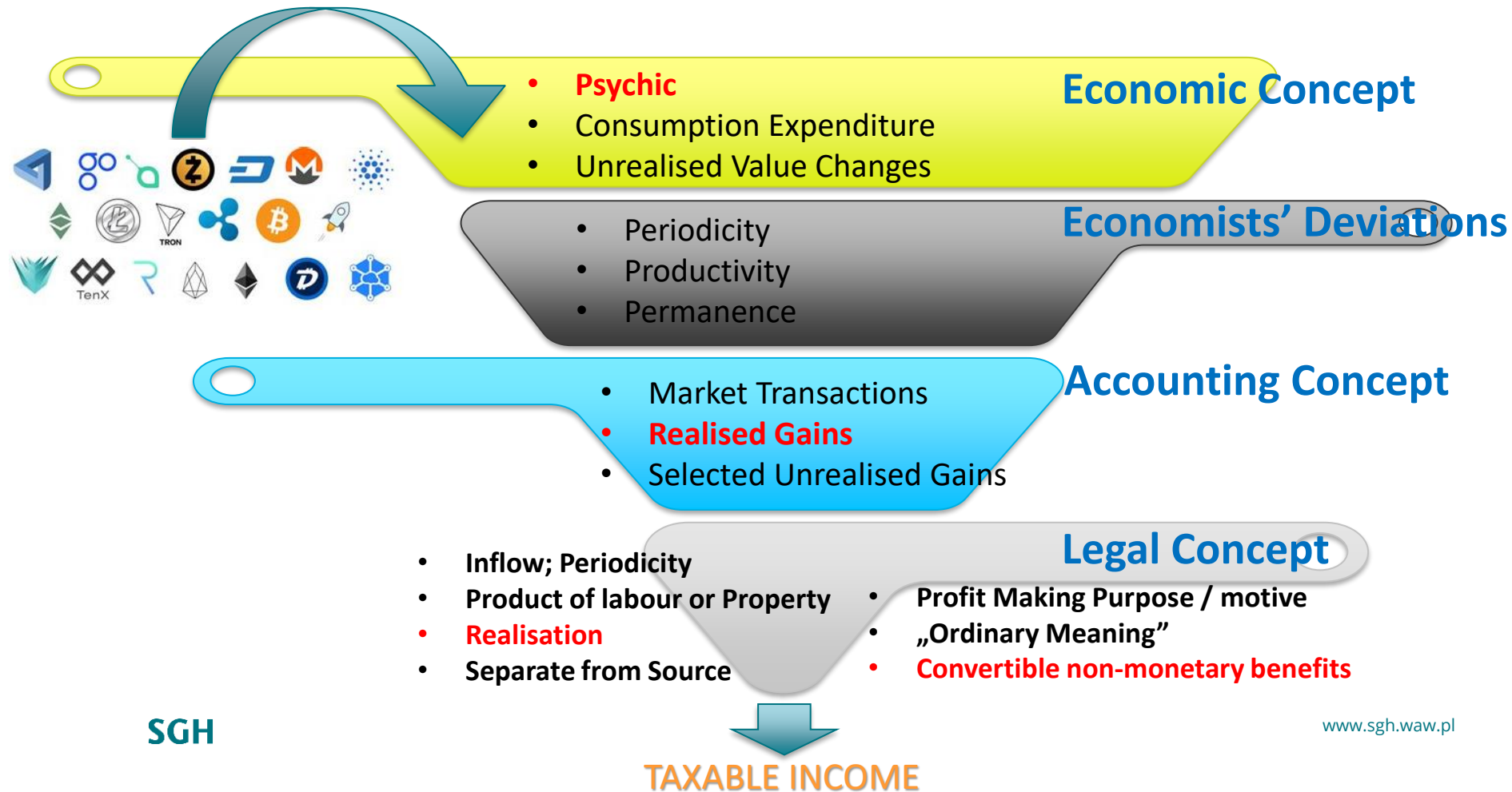
Policymakers may consider providing guidance that is comprehensive and:

- 1) Addresses the **major taxable events**, and **income forms** associated with crypto-assets,
 - 2) Provide details about **the boundaries** between different types of crypto-assets, and on how other forms of these assets are treated for tax purposes,
 - 3) The tax treatment of crypto-assets should be **consistent with** the tax treatment of other assets,
 - 4) Consistency with the tax treatment of other assets of the same type could enhance **tax system neutrality**, unless there is a reason to deviate from it due to the specific characteristics of virtual currencies,
- in order to provide clarity for taxpayers.

CLEAR GUIDANCE – THE MAJOR TAX EVENTS

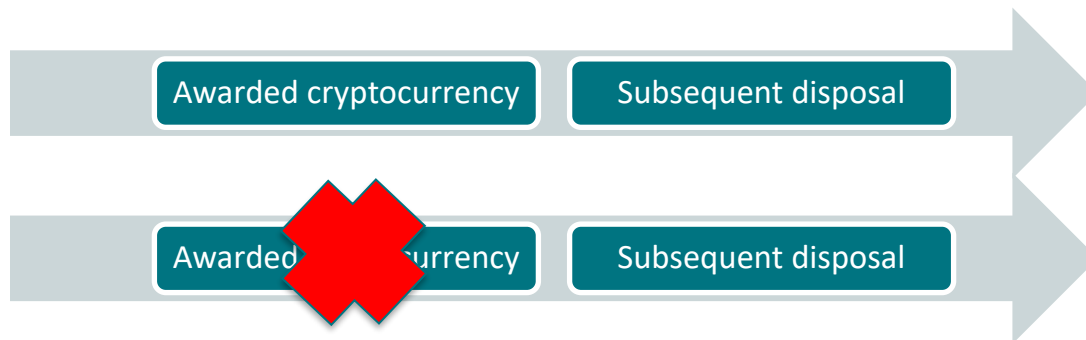
- 1) **Creation** of virtual currencies (e.g. via mining, and airdrops) and related expenses;
- 2) **Exchange** with other crypto-assets, fiat currency, and for goods and services including valuation;
- 3) **Disposal** via gift or inheritance;
- 4) Loss or theft;
- 5) Emerging developments (e.g. hard forks, interest-bearing tokens);

Interdisciplinary concept of income – income funnel



Mining

Tax treatment – taxable event	Country
<p>The majority of jurisdictions require that:</p> <ul style="list-style-type: none">• the awarded cryptocurrency is included in taxable income (generally at market value), and• subsequent disposals might again trigger taxation (in case and to the extent of further appreciation in value)	e.g. Australia / Germany
<p>The minority of jurisdictions:</p> <ul style="list-style-type: none">• the subsequent disposal of the cryptocurrency is taxable.	e.g. Poland



Forks

Tax treatment of hard forks (when the taxpayer is deemed to receive the assets for tax purposes)	Country
<p>The majority of jurisdictions:</p> <ul style="list-style-type: none">• creation of “new” tokens (with a zero basis) and/ or a continuation of the “old” token (without the existing tax basis)	<p>e.g. Australia</p>
<p>The minority of jurisdictions:</p> <ul style="list-style-type: none">• immediately taxes the receipt of a “new” token at its fair market value, or• provide for an apportionment of an existing tax basis between “old” and “new” tokens	<p>e.g. the USA, the United Kingdom</p>

Airdrops

Direct network effects - utility is often dependent on the number of other end-users consuming the same good or service

Tax treatment – The “airdrop” of an established crypto asset might be:	Country
1) Considered as income in the amount of the market value	e.g. Australia
2) Exempt from immediate taxation (and only taxed upon a subsequent disposal)	e.g. Austria
3) Treated as a (taxable) gift	e.g. Denmark
4) Compensation for a promotional service on social media or for providing data	e.g. Finland

Exchange crypto vs. crypto

Tax treatment – crypto-asset vs. crypto-asset	Country
<p>The majority of jurisdictions treat such transactions as:</p> <ul style="list-style-type: none">• realization event (most of them as a barter transaction)• potentially realizes the accrued gains in the transferred crypto assets	e.g. Australia
<p>The minority of jurisdictions treat such transactions as:</p> <ul style="list-style-type: none">• tax neutral• deferring taxation until, e.g. the conversion into fiat currency or the use for purchasing goods or services	e.g. France

Transactions for goods or services

Tax treatment – transactions for goods or services	Country
<p>The majority of jurisdictions treat such transactions as:</p> <ul style="list-style-type: none">• payments in kind and hence (taxable) - realization events (as barter transactions),• on the side of the buyer or service recipient, it generally realizes the accrued gain in the transferred crypto asset at its fair market value,• on the side of the seller or service provider, it determines the acquisition costs of the acquired crypto assets and hence the revenue earned	e.g. Australia
<p>The minority of jurisdictions:</p> <ul style="list-style-type: none">• on the side of the seller or service provider – discuss that the realization should be postponed to the moment of, e.g. conversion into fiat currency	e.g. Belgium

Extinct

Tax treatment – the “extinct” of the crypto-asset:

The deductibility depends on the qualification of the crypto asset as:

1) loss of access to a wallet

2) bankruptcy of the wallet provider

3) „rug pull”

4) Compensation for a promotional service on social media or for providing data

5) (...)

- a capital asset
- a speculative asset
- a part of business activity
- inventory

Establish a permanent establishment according to OECD Model Tax treaties

Tax treatment – examples	Create PE
• taxpayer renting and operating servers (hardware) for crypto mining <u>might establish a permanent establishment</u>	YES
• while renting mere cloud mining capacity <u>would not establish a permanent establishment</u>	NO

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Thank you for your attention!

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