Horizon Europe *Civil Security for Society*

Destination – Strengthened Security Research and Innovation

Call – **Support to Security Research and Innovation 2023**

Session Chairs:

- Elodie Reuge (EOS)
- Marta Kollarova (CVTI)

Name and e-mail of proposer/presenter

Increased Innovation uptake

#	Organisation	Presenter
CL3-2023-SSRI-01-02		
1	UniText SAS	Philippe JARRIN
2	Diskinkt	Luca Venza

SSRI-01-02

Accelerating uptake through open proposals and advanced SME Innovation

Name and e-mail of proposer/presenter

SSRI-01-02

#	Organisation	Presenter
1	UniText SAS	Philippe JARRIN

Secured Social Network

- *Philippe JARRIN*

- *Philippe.Jarrin@UniText.fr*

- *UniText SAS*

- Role: **Proposal coordinator** *(SME)*
- Proposal activity:

HORIZON-CL3-2023-SSRI-01-02   HORIZON-CL3-2024-SSRI-01-02

- **Accelerating uptake through open proposals for advanced SME Innovation**

5

Proposal idea/content

- *The Secured Social Network concept exists at TRL 5/6 with the UniText concept to be enriched and adapted with existing technological bricks and partnerships agreements*

  - *The Goal is to Introduce Lean, Agile, Risk management at the root of a WORM (Write Once, Read Many) DataBase at the root of*

    - *Market place, Calls and Offers in Project Mode/Negotiation*
    - *Trusted circle of users where access rights/missions are delegated and mutually watched*
    - *Trusted centralized servers per LEI that securely communicate with each other on high level defined access rights*
    - *Key Information and Key Characteristics managed with agility, within virtual or implicit comprehensive documentation (See Agilemanifesto.org)*
    - *Risk Management from design inspired by Aerospace Methodology*
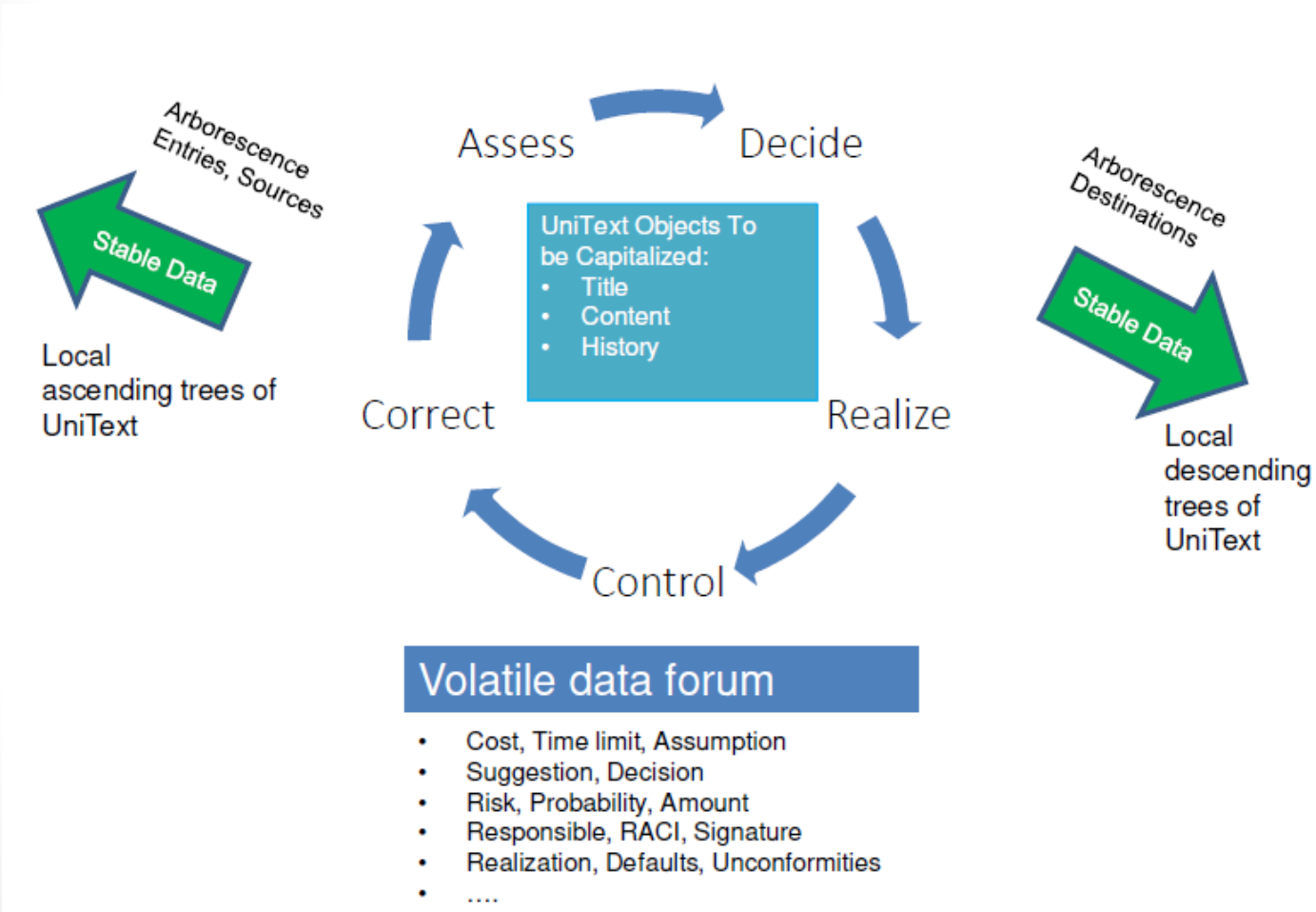
6

Secured Social Network

Philippe JARRIN   Philippe.Jarrin@UniText.fr

Project participants

- Looking for partners with the following expertise/ technology/ application field:
  - *Capacity in Web Development to reach TRL 6/8*
  - *Adaptable technological know how in Social Network, Digital Work Place, Collaborative environment*
  - *API Security to manage data Exchange between Secured Servers containing WORM Data Bases*
  - *Cyber Security of WORM Data Bases, where the ransomware vulnerability is far buried within the root system*
  - *Risk management, Lean and Agile methodologies to be included at design level of the Secured Social Network*
  - ***End User in Option A, B, C, D*** *of*
    HORIZON-CL3-2023-SSRI-01-02 HORIZON-CL3-2024-SSRI-01-02

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SSRI-01-02

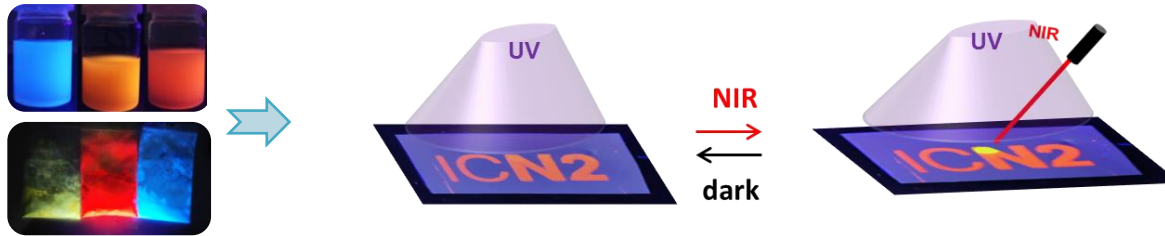| #	Organisation	Presenter
2	DIstinkt	Luca Venza

Reversible, phase change NIR inks

- *Luca Venza*

- *luca@distinkt.tech*

- *Distinkt*

- Role: *WP leader, S/T provider*

- Proposal activity: *HORIZON-CL3-2023-SSRI-01-02: Accelerating uptake through open proposals for advanced SME Innovation*

10

Proposal idea/content

Smart, invisible nano-ink that modulates its color/fluorescence when irradiated with NIR light.

New generation of dynamic inks to prevent counterfeiting.

- The inks are made of small particles (microsized) that change color or emission in response to NIR light. The response is highly tunable and can be personalized depending on the components used in the particles.

- These particles can be integrated in commercial formulations as additives and be printable with commercial printing techniques (offset, flexo, inkjet).

- The end customer can detect the authenticity of the products with easy to handle devices like a UV lamp or a NIR laser pen.

- The effect obtained is very difficult to replicate because it is encrypted and can only be observed with an external stimuli (the NIR source) and depends on the composition of the particles.

✓ **UV and NIR responsive**

✓ **Dynamic and reversible color change**

✓ **Highly tuneable and customizable**

✓ **Easy to test**

✓ **Highly irreplicable- Quantum encryption**

✓ **Industrially viable- offset and screen printing on all major substrates** (inkjet testing ongoing…)

The idea is to use these particles in security inks for protecting the EU citizens against crime and terrorism. We are going to use a new generation of dynamic security inks to protect banknotes, identity documents and different products like luxury goods or medicines.

Luca Venza, luca@distinkt.tech

Project participants

- Looking for partners with the following expertise/ technology/ application field:

  - *Security ink manufacturers*
  - *Security document manufacturers*
  - *Print machine manufacturers*
  - *Security packaging companies*
  - *Luxury brands*
  - *OEMs of manufactured goods*

Banknotes

Identity Documents

Luxury goods

Applications

Pharmaceutical

Food packaging

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