

Innovations in Cash Management

European Central Bank

<u>Update</u>

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ESTA Conference, Athens, Greece 2-3 June 2014



1. The CIT sector study

2. Roadmap for more convergence

3. Update on IBNS study



Over the past decade, the CIT industry has often been in a difficult position.

- Competition in the sector has remained an issue in many countries, either because it is intense and destabilising, or lacking.
- In several euro area countries, CITs have increasingly been confronted with security issues, seeing an increase in the number and aggressiveness of attacks.
- Labour relations at CIT companies are often strained and their financial position is often fragile. A few insolvencies were reported in the last few years...









Background

The Banknote Committee requested to

"undertake at Eurosystem level a thorough analysis of the functioning of the CIT sector with a view to analyse the nature of its weakness and the policy options available to the Eurosystem."

The Eurosystem wants to <u>better</u> understand the CIT sector



Objective

To better understand the issues in the CIT sector

- The CIT and cash processing sector play a <u>key role</u> in the cash cycle
- The Eurosystem defined as desirable situation having a CIT and cash processing sector that is
 - resilient,
 - reliable and
 - efficient

Scope

What is the subject?

- CITs (Cash in transit companies)
- **CMCs** (Cash management companies)

What do we want to know?

- Characteristics
- Strengths
- Weaknesses
- Threats
- Risks
- Opportunities

- Assessing the functioning
- Identifying policy options

Scope

Stakeholder Interviews				
CITs		CITs' clients		
Big 4	Other CITs at national and/or regional/local level	Credit institutions	Retailers	
Euro area level	National and/or regional/local level			
Brinks, G4S, Loomis and Prosegur	incl. national subsidiaries of "Big 4"			
ECB/CIT TF	NCBs	NCBs	NCBs	





Important notice

- Outcome will be made available only to the participants
- Aggregated data
- Focus of the final report: trends and major developments in the CIT sector



Content

Set of questions for the interviews

- To be asked during a face-to-face interview
- Aspects to be tackled:
 - Security and legal aspects
 - Competition, fee/price policy and financial information (officially published or available information only)
 - Risks, resilience, business continuity management
 - Envisaged/future developments
 - Additional optional questions for CITs (not directly related to the CIT study but related to the new euro series)



Current Activities/Status

• Interviews with the "Big 4" CITs at European level \rightarrow ongoing

 Interviews at the national level of the other CITs, credit institutions, retailers (sample taken at discretion of NCBs) → ongoing



And finally....

We count on your support and constructive feedback!



Roadmap for more convergence of NCB cash services (2007)

- is a Eurosystem medium-term commitment towards convergence in areas where this is useful
- reacts on the "wish lists" from the European Payments Council
- complements the future EU regulation on the professional cross-border transportation of euro cash



Roadmap elements:

- Dropping the requirement of facing and orientating banknote lodgements/withdrawals (done)
- Minimum opening time (6 hours) in at least one NCB branch per country (done)
- Acceptance of coin lodgements in at least one NCB branch per country (done)
- Remote access to non-domestic NCBs (done)
- Electronic communication on cash transactions with domestic and non-domestic NCBs (*being implemented*)
- Convergence of banknote packaging (being implemented)

Roadmap for more convergence

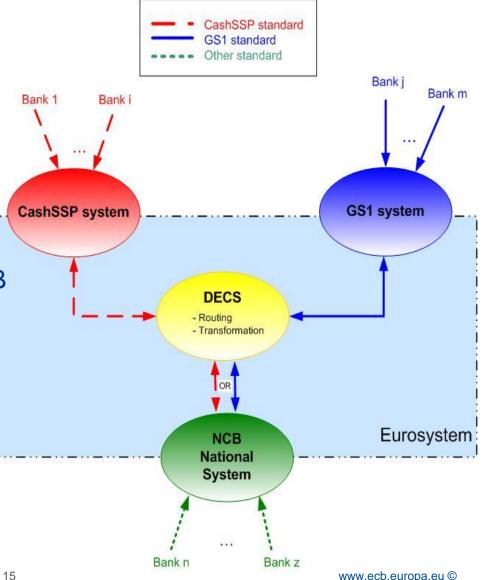


Electronic data communication

Banks/CITs keep using the domestic NCB's application (*e.g. German bank always sends message via CashEDI*)

"Front office" verification of the message always by the domestic NCB

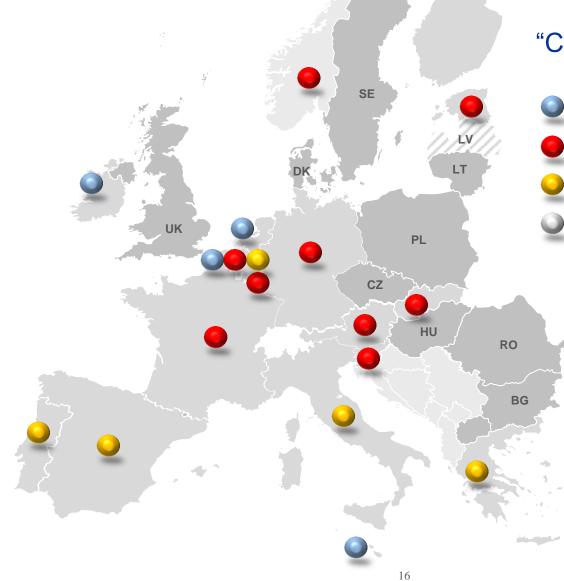
The DECS interface only translates between **CashSSP** and **GS1; third formats** are possible if NCBs using it map it to either CashSSP or GS1



Roadmap for more convergence



Status on packaging



"Common" packaging formats

- Re-usable plastic box
- Safebag
- Sealbag
- Cardboard box (used by all NCBs except NL; only for withdrawals)

To be used upon an NCB client's request





Scope of the study

Objective:

 To address the detection issue of IBNS stained banknotes by BEMs and NCBs

Intended development:

 Common detection criteria for IBNS stained banknotes to be used by the Eurosystem

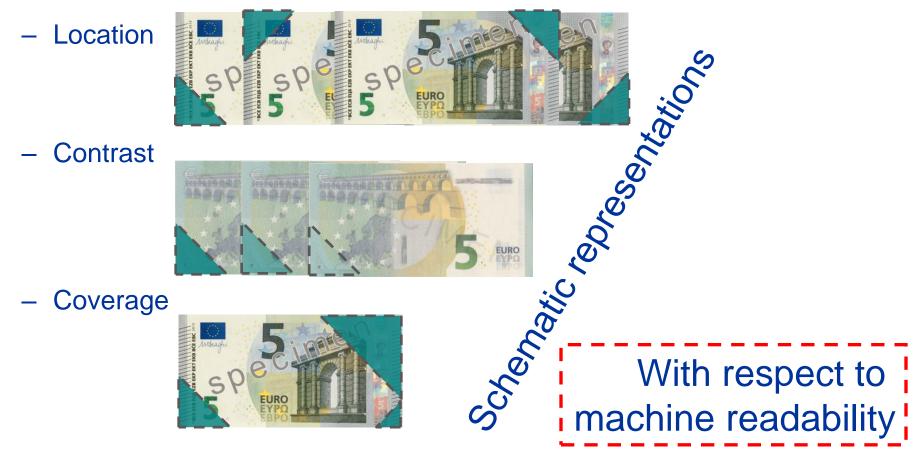
Contributors:

 One major Ink supplier, four major BEMs and three Eurosystem central banks



Common detection criteria defining:

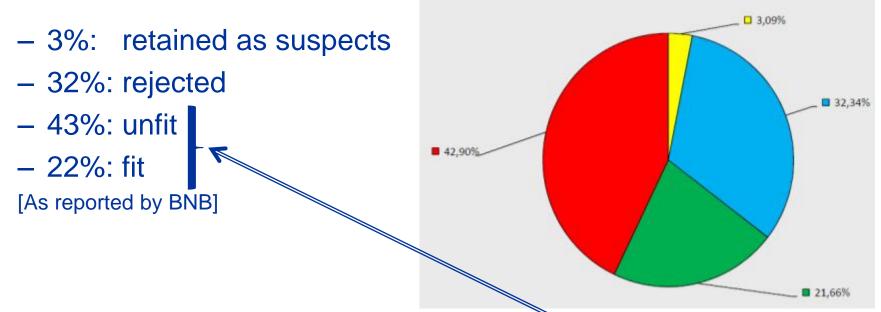
Ink (containing InfraRed absorption characteristics)





Current Issues

• Ink stained notes undetected by CRMs:



- IBNS stained notes are mostly shredded as unfit notes
- The project is targeting to reduce/ avoid unfit and fit

Phases

PHASES	PHASE CONTENT (short description of each phase)	Status
1	1 st iteration of explosion test with IBNS inks, preparation of test decks	Finished
2	1 st iteration of sorting test with test decks	Finished
3	2 nd iteration of preparation of test decks	Finished
4	2 nd iteration of sorting tests with test decks from phase 3	Q2- 2014
5	Sorting test on high speed sorting machines	Q2- 2014

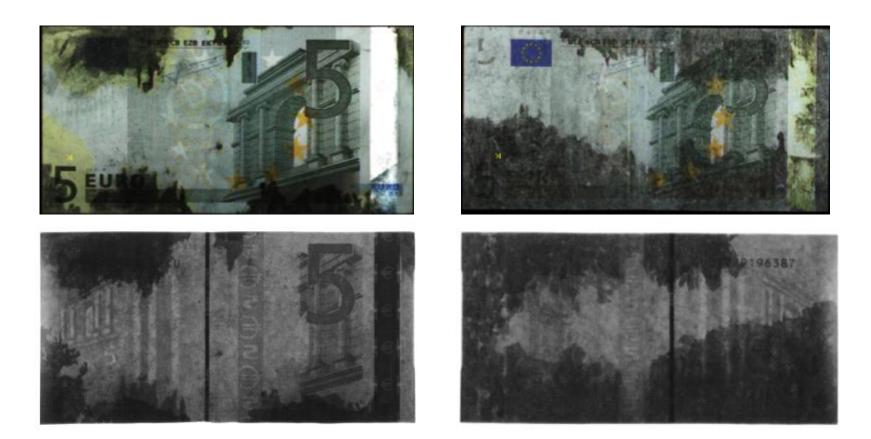


Way Forward

- 1st iteration sorting showed high reject rate (>90%) of test banknotes
- Not suitable for R&D, aim is machine readability and adaptation
- 2nd iteration: adapt test banknotes in a structural manner, create them artificially using IBNS stains that have a defined range in:
 – Size
 - Size
 - Location
 - Contrast
- 2nd BEM and NCB sorting test
- Outcome of study: Set of requirements on common IBNS detection principles, set up in liaison with third parties
- Presentation of the results to relevant stakeholders (ECUG, EURICPA, ATMIA, ESTA...)



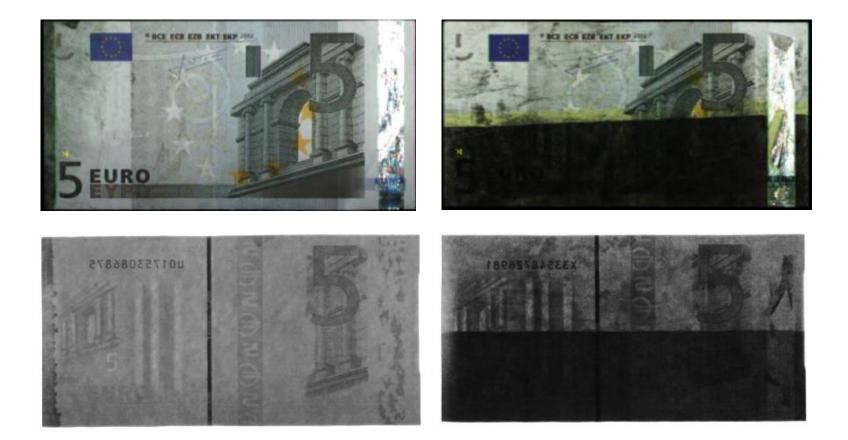
Examples: Explosion test deck



Green ink maybe removed, IR absorbing characteristic remain



Examples: Artificial test deck





Examples: Stained/ soiled notes test deck





Thank you for your attention

Please visit us at www.ecb.europa.eu/euro

And http://www.new-euro-banknotes.eu/

