

CREATIF



Network of Testing Facilities for
CBRNE detection equipment

SEIBERSDORF
LABORATORIES



 **BAM**
Bundesanstalt für
Materialforschung
und -prüfung

COTECNA



Content



- **Motivation**
- **Objectives**
- **First project results**
- **Support of Innovation**
- **Next Steps**



CREATIF - Motivation



- presence/availability of **Test Centers**
- availability of **Standards and Test Protocols**
- **Harmonization of Testing**
- **comprehensive** testing of **CBRNE** systems
- **Information Transfer** between **Stakeholders**



CREATIF – Objectives I



- **Database** on Test Facilities & capabilities
- Offer **Discussion platform**
 - **End-user support**
 - Promote **best practise** of testing
 - **suggest** improved Test Protocols, Round Robin Exercises
- coordinate **Comprehensive** (combined!) **Testing**



CREATIF – Objectives II



- **Roadmap for Future Development of Testing**
(including standardization & certification)
 - suggest **Minimum Requirements** of Testing Facilities
 - improve **Testing Procedures** to cover Human Factors and Operational Issues
 - ➔ *scenario-based testing*
- agree on **Certification Strategies** for Facilities and Devices



Standards for Testing - CBRNE



ECAC protocols (European Civil Aviation Conference)	
ASTM E2520 – 07 (international/US)	Standard Practice for Verifying Minimum Acceptable Performance of Trace Explosive Detectors
DSTO-TR-2033 (Australia)	Standard Protocol for the Evaluation of Explosive Detection Equipment
NIJ Report 100-99 U.S. Dept. of Justice	Evaluation of a Test Protocol for Explosives Trace Detectors Using a Representative Commercial Analyzer

- **NO European Standards,**
- **for Aviation widely accepted protocols**

Standards for Testing - CBRNE



Nuclear Security Series 1, IAEA, 2006	Technical and functional specification for border monitoring equipment: reference manual
10 ANSI Standards + 6 Draft Standards	Alarm dosimeters – Spectroscopic systems Detectors for control of cargo and humans
3 IEC Standards + 4 Draft Standards	Detection systems against Illicit Trafficking hand-held and Portal monitors

- **Many standards for testing of detectors available**
- **NO European Standards exist**

Standards for Testing - CBRNE



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No Standards available

→ **only internal protocols used for testing of equipment**

→ **NO Standards exist**

Standards - CBRNE

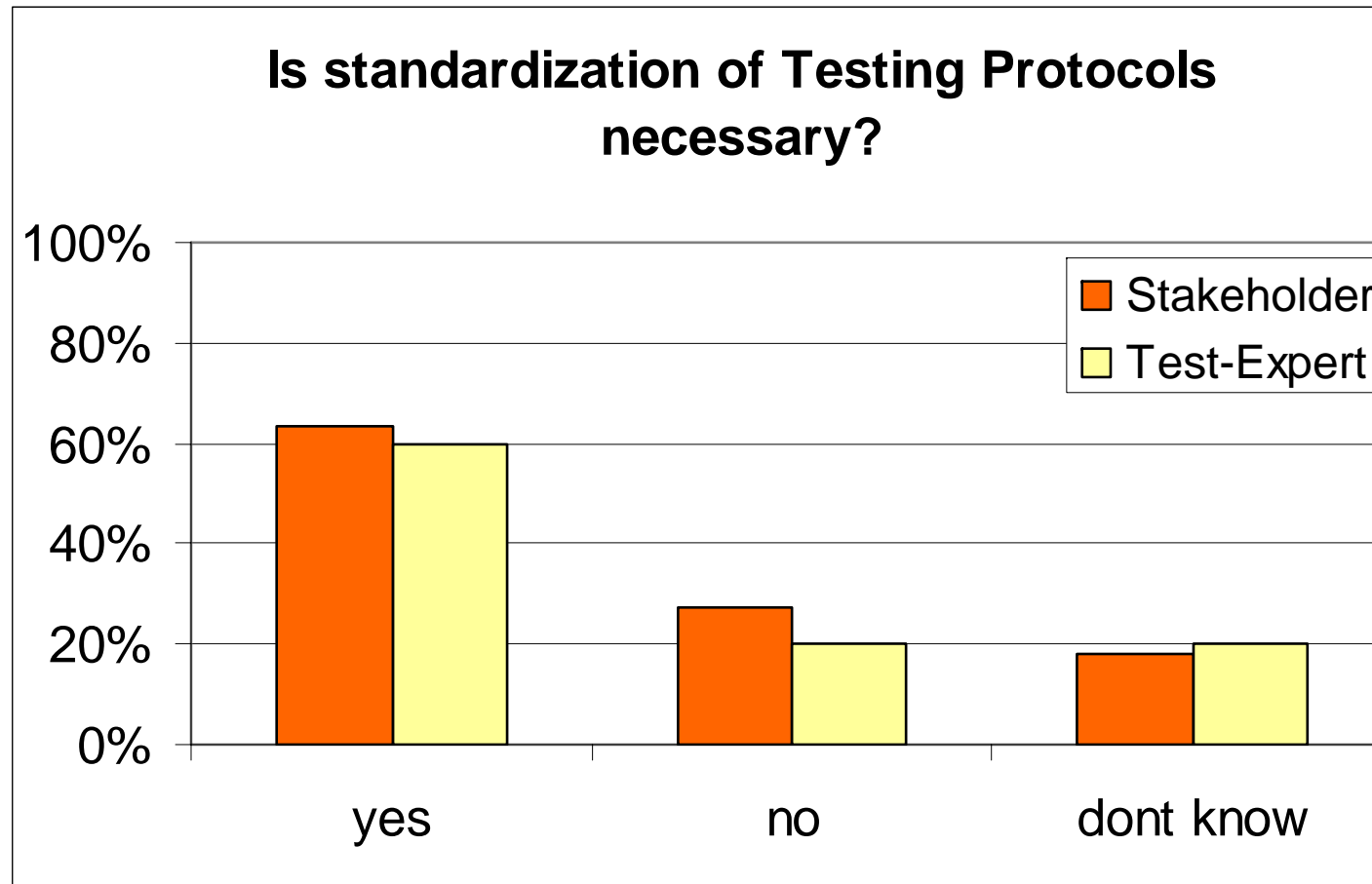


NATO requirements, OPCW recommendations (no public information!)

No Standards available

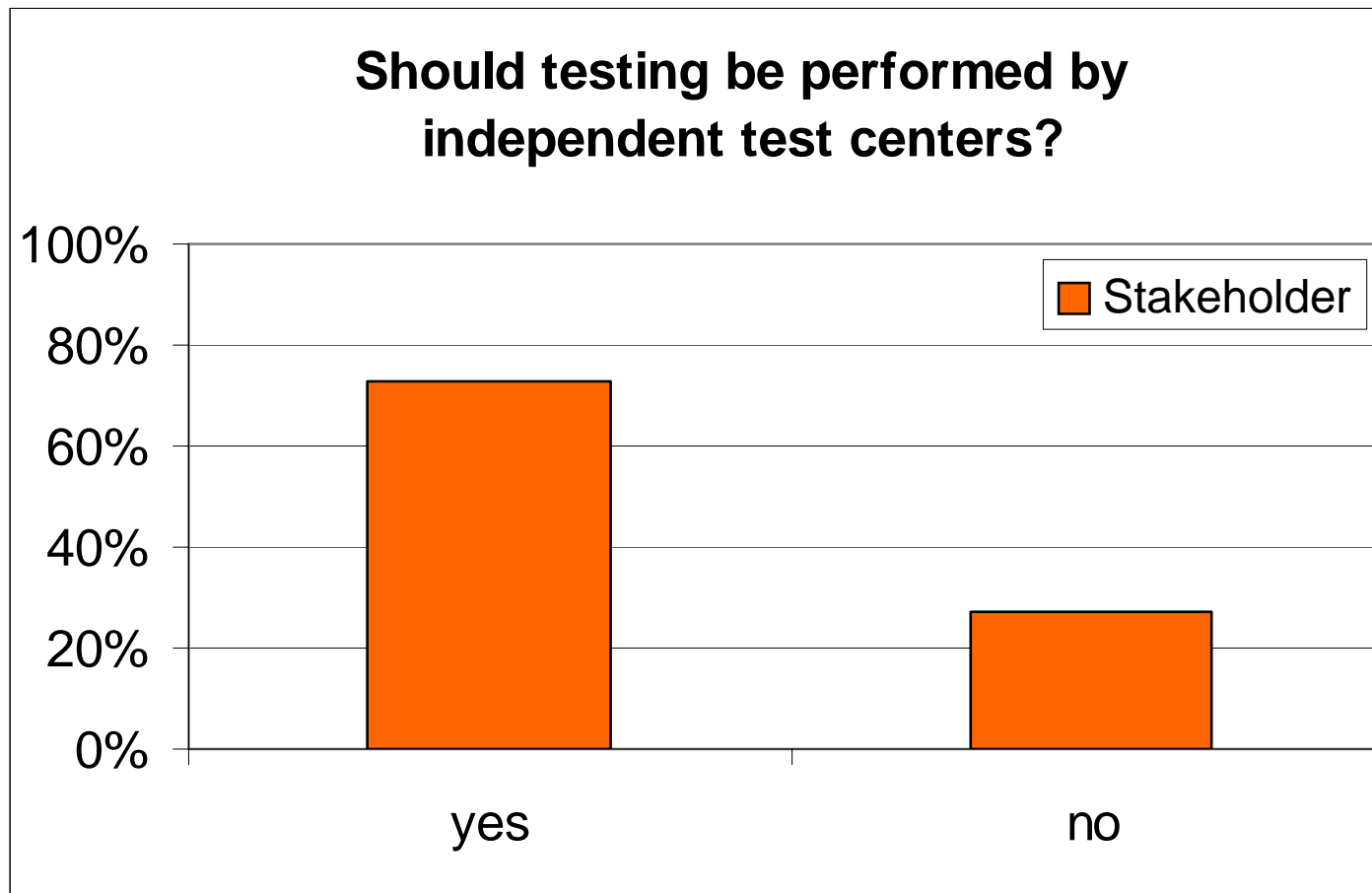
- **military protocols used for testing of equipment**
- **NO civilian standards exist**

CREATIF – Results of Questionnaire



N = 21

CREATIF – Results of Questionnaire II



N = 11

CREATIF – Link to Innovation I



Staccato* – findings 1

“...(European) Standards are important to enhance the Security Market for equipment and products...”

- *“rapid [...] technology take-up...”*
- *“enhancement of competition by differentiating products”*

→ take into account **dual-use**
(e.g. public health issues for B-detection, RN monitors)

* STACCATO – Stakeholder Platform for Supply Chain Mapping, Market Condition Analysis and Technologies Opportunities (EU-funded Project PASR 2006)

CREATIF – Link to Innovation II



Staccato* – findings 2

“...CBRNE missions are highly specialized, and related mainly to public operators and first responders...”

→ favourable conditions for public pre-commercial procurement



CREATIF – Link to Innovation III



Testing Centers foster innovation by translating end-user needs to technical (objective) specifications

- Support manufacturers in developing improved products
- Trust in products grows through informed customer decisions
- Based on reliable/comparable testing results
 - take-up of new technologies encouraged
 - Fair competition of products / manufacturers
 - Proof dual use applicability of detectors



CREATIF - Next steps 2009/2010



- **CREATIF Workshop Nov. 4.-5.th 2009**
 - Stakeholder Discussions
 - Technical Topics: Testing & Standardization
- **Network building and data collection**
 - Collect information from invited Stakeholders and Testing Centers
- summarize **State of the Art** of European **CBRNE-Testing**



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