DIG Best Practices
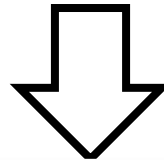
Nicole Ndenge
Bundeswehr

Vienna, 2013-09-16/19

Aim of the Presentation

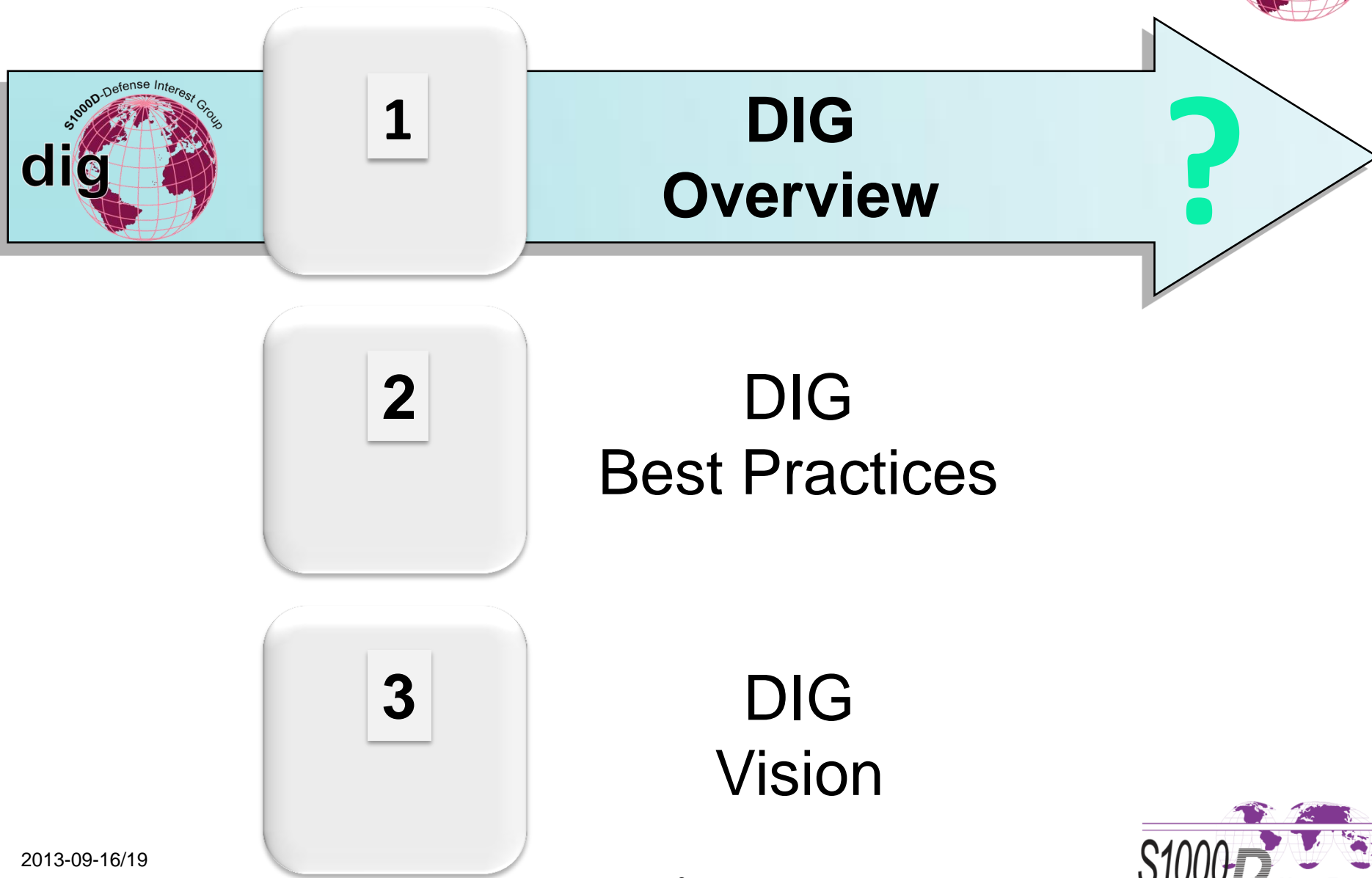To present the **Best Practices** of the S1000D **D**efense **I**nterest **G**roup (DIG)

➢ **DIG Overview**

➢ **Experience shared**

➢ **DIG vision**

Agenda

1   **DIG Overview**

2   DIG Best Practices

3   DIG Vision

S1000-D **User Forum**

The DIG

Who

MoD/DoD Rep

Agencies Industry (supporting)

What

Maintain S1000D Defense Interest

Where

In the Programs & Nations

S1000D Community

Objectives

The DIG strives to ensure that S1000D meets global defense needs

+ Policy documentation

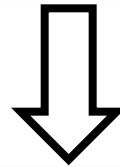**+** Methods

+ Legacy data (life cycle)

+ S1000D Development

Methodology of work

Pool of topics dig

S1000D-Defense Interest Group

↓

DIG Rev (DIG Review)

Benefit to S1000D Defense Projects!

↓
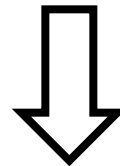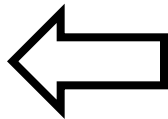
S1000D-Steering Committee *technical* ← **DIG Issue** → *policy* council *S1000D-Council*

SC
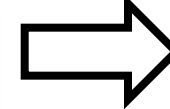
Agenda

1   DIG Overview

2   **DIG Best Practices**

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DIG Objectives > Best Practices

@S1000D-DIG-2012-2013

(Guiding Principles!)

Policy documentation

- Contracting issues
  - Share experience
  - Harmonize requirements

- Integration with other standards

- Harmonization of business rules

- Military regulations

Legacy (Life Cycle)

- Maintenance of previous issues

- Compatibility between issues

- Data conversion

S1000D Future development

- Understanding new issues
  - Issue 4.1+

- Data dictionary
  - Benefit to the defense customer

- Modularization
  - Make the spec easier to learn and apply
  - Keep the spec maintainable
  - Achieve harmonization with other standards
  - Avoid the inflation of issues

Methods

- S1000D tools
  - Lessons learned

- Samples
  - Extend the "bike"
  - Use a "real" data set

S1000-D **User Forum**

Best Practices

@S1000D-DIG-2012-2013

Policy documentation

Contracting issues
- Share experience
- Harmonize requi...

Integration with ... rds

Ha... usiness rules

M... egulations

Policy documentation

- **S1000D for standardization**

- **Save costs during life cycle**

- **Support the ILS concept**

- **Need military specific business rules**

S1000D Future developme...

Understanding new issues
- Issue 4.1+

Data dictionary
- Benefit to the defe...

Modularization
- Make the spec easier to learn and apply
- Keep the spec maintainable
- Achieve harmonization with other standards
- Avoid the inflation of issues

Best Practices

Policy documentation

- Contracting issues
  – Share experience
  – Harmonize requirements

- Integration with other standards

Legacy (Life Cycle)

Compatibility

Legacy Issues

- **S1000D issue management (maintenance of the spec)**

- **Upward compatibility keeps defense in line with the spec development**

- **Data conversion eases**
  - **interoperability**
  - **use of new technologies**

- **Apply military regulations in the new S1000D tech doc environment**

– Keep the spec maintainable
– Achieve harmonization with other standards
– Avoid the inflation of issues

S1000-D User Forum

Best Practices

Policy documentation

Legacy (Life Cycle)

Mainten... issues

Compati...

Data conversion

Methods

Methods

S1000D tools
– Lessons learned

Samples
– Extend "the bike"
– Use a "real" data set

- **Samples helpful for both supplier and customer**

- **Guarantee S1000D spec conformance: use the original S1000D schemas**

- **Implementation guide**

- **Data quality through validation (e.g BR checker)**

...ense customer

Modularization
– Make the spec easier to learn and apply
– Keep the spec maintainable
– Achieve harmonization with other standards
– Avoid the inflation of issues

Easier use as a goal!

dig

- **Assure future S1000D-usage on the Defense Customer side, calls for easier use and transparency in its implementation - namely:**

- **Interoperability**

- **Flexibility**

- **Stability**

- Military regulations

Methods

- S1000D tools
  – Lessons learned

- Samples
  – Extend "the bike"
  – Use a "real" data set

Understand n...

...fit to the defense customer

Modularization
  – Make the spec easier to learn and apply
  – Keep the spec maintainable
  – Achieve harmonization with other standards
  – Avoid the inflation of issues

S1000D Future Development

S1000-D **User Forum**

The Aim of Tech Doc

Technical documentation supports the life cycle of any military project (vehicles/equip air, land, sea)
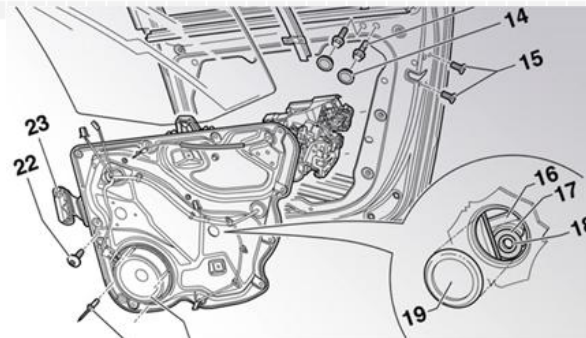
VERFAHREN

1.

+ A C H T U N G +

Bei Arbeiten mit Farben und Lösemitteln Schutzbrille und Schutzhandschuhe tragen. Arbeiten nur in gut belüfteten Räumen ausführen.

Die auszubessernde Stelle von Schmutz befreien (siehe Rocket Pod Container (RP/C) – Mechanisches Reinigen).

S1000D Information processing -> DIG Issues Register

ToR @S1000DDIG-2012-2013

The overall objective of the DIG is to ensure that the S1000D continues to meet the needs of all global users of defense products

Maintain issues register on technical aspects of the S1000D information processing for the defense community!

Apply S1000D – Customer View

> ➤ Define purpose, scope and depth of the tech information through Information sets,
> ➤ Define business rules for data module coding,
> ➤ Generate a data module requirement list,
> ➤ Generate data modules supporting various types of content and constructs, …

- **Business rules layers model**

- **Business process in accordance with other ILS Specifications including training**

- **Information sets & information codes**

- **CPFs with functional requirements of benefit to military**

- **Functionality matrix**

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Gain Experience, by …

➢ collecting **expectations** of group members

➢ considering different **acquisition environments**

➢ identifying **common interests**

➢ consolidating **defense positions**

➢ setting up **defense priorities** and building a **work plan**

➢ processing **identified tasks**

➢ participating in significant S1000D **working areas, platforms** and **forums**

Think "Project-Oriented"

… and work together to improve processes & to manage complexity

S1000D Specification

Conformance and compliance

Customer Implementation

Business rules

Guidance Material

Conformance and compliance to the specification

We have a Platform!

Way ahead

- **MoD/DoD Rep?**
- **Have a MoD/DoD Sponsor?**
- **Agency?**

Join & Follow up!

Follow up with

- **More involvement of MoD**
- **Spread the objectives**
- **Consolidate defense specifics**
- **Focus on the best practices!**

DIG @UF2013-20130915

Thank you for your attention!

nicolendenge@bundeswehr.org

Chair, Defense Interest Group
Member, S1000D Council
Member, S1000D Steering Committee

Logistikkommando der Bundeswehr
Germany