eSTATISTIK.core - A Digital Link between Business and Statistics

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Jörg Decker and Michael Schäfer
Federal Statistical Office, Germany
Introducing eSTATISTIK.core

- **CORE**: Common Online Raw data Entry
- **eSTATISTIK**: statistics as an active contributor to eGovernment
- Embedded in the strategic programme of the German statistical offices
- Aligned with national eGovernment initiatives

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The core of .CORE

- A new procedure for the primary collection of raw data from businesses and authorities
- Integrates IT systems of respondents into the data collection system, allowing reporting to become a fully automated and seamless workflow
- Includes methodological improvements
- Main objectives: disburden respondents, increase data collection efficiency and data quality
- Initiated 03/2003, productive 03/2005
- Partners: Statistical offices and AWV
Complex reporting channels

- **Paper**: Manual entry, small data volumes, little or no standardisation
- **Web**: Multiple, parallel reporting, various procedures/formats
- **Phone, fax**: Internal workflow, little or no support by standard ERP software
- **Business data management systems (ERP)**: Large data volumes, but no standard procedures/formats

Statistical offices

- A multiplicity of data collection procedures
- "Many faces to the customer"
The .CORE reporting channel

CORE.server

A single point of delivery

WWW

Direct data retrieval and automated message generation
Multi-message documents

Statistical offices

Survey-independent data and programming interfaces

Business data management systems (ERP)

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Architecture

**Business**
- DMS
  - Statistics Module: Survey A
  - Statistics Module: Survey B
- CORE.connect
- **Transport**
  - XML HTTPS
  - Survey definition: DatML/SDF
  - Raw data: DatML/RAW
  - Protocol: DatML/RES
- **Statistics**
  - DCS
    - KonVert
    - Data reception: Validation, Transformation, Forwarding
    - Metadata access
    - Resource database
  - Production
    - Survey A
    - Survey B

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Decision-making and implementation (I)

Strategic working group
AWV, statistical offices, SW producers, respondents, associations

„Data exchange with statistical offices“
Establishes, guides and co-ordinates teams, evaluates the implementation of eSTATISTIK.core, conducts PR activities and makes strategic decisions

Domain-specific teams
Statistics, respondents, SW producers, service providers

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Decision-making and implementation (II)

Domain-specific teams

Subject-matter experts

IT specialists

SW producers: Statistics module

Implementation

Statistics: metadata deployment

Subject-matter definitions and metadata

Artefacts for implementation and operation

Suitability/feasibility methodological work

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Achievements

- Server-side system productive since March 2005
- Supports 28 surveys in 8 statistical domains
- 16 surveys are currently receiving raw data
- Steadily growing number of implementations and users
- Server-side system is stable and actively used
  - Continuous development, several minor releases
- A widely accepted solution
  - Intensive co-operation and marketing
Awards

- Winner of the 5th eGovernment Competition 2005, category “Economy and Labour“
- Speyer Quality Award 2005, category “Electronic Government“
- Best Practice Case at the 4th Quality Conference for Public Administrations in the EU, Tampere/Finland, 2006
Some remarks on quality

- “Give us the data you have and we see what we can make of it”
  - Facilitates data provision for respondents
  - Reduces errors by avoiding to make respondents transform or calculate data

- Improved description, fewer interpretation errors
  - Alignment of statistical terms to business terms facilitates understanding
  - Standardised documentation for SW producers

- System-provided data
  - Fewer human interventions = increased coherence and consistence of data over time and per respondent

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Future work

- **Statistical activities**
  - Add support for further surveys

- **Marketing activities**
  - Targeting SW producers and respondents in specific business domains

- **Technological activities**
  - Integration with the on-line data collection system IDEV
  - XML input data base for facilitating access to XML messages
  - Alignment with similar reporting channels (taxes, health)
  - Improved conformance with eGovernment standards

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Information and contacts:

eSTATISTIK.core:
http://www.statistik-portal.de

Information and support, +49 (0)611/75-2040
estatistik.core@destatis.de

Mr. Jörg Decker, +49 (0)611/75-2442
joerg.decker@destatis.de

Mr. Michael Schäfer, +49 (0)611/75-3652
michael.schaefer@destatis.de
Thank you very much for your attention!

Any questions?