



INSTITUTO NACIONAL DE ESTATÍSTICA
STATISTICS PORTUGAL



» Statistics Portugal Survey Management System Architecture

NTTS 2013 «
Brussels

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Survey Management System Business Statistics

- Objectives

- Implement an integrated and consistent approach to survey management systems
- Integrate, harmonize and reuse processes
- Increase coherence and comparability by using the same updated population
- Reduce statistical burden on data providers

Survey Management System Subsystems



Integrated Information System





Survey Management System

Fue  Sigua  Gresp  GPap  Webreg  webinq  SICCC 



- **Business Register**

- Statistical Unit Registers System for business
 - Business; Local Unit; Road Vehicle; Periodical
- Refreshed via administrative sources and surveys
- Online shared data (access and update)
- Definition of updating rules for statistical units



Survey Management System

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- Population and Sample Management
 - Population, sampling frame and sample central database
 - Focus on sample design and management
 - Trace down the statistical units life cycle
 - Create conditions to facilitate burden measurement



Survey Management System

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- Respondents Management

- Optimize cooperation and encourage participation of respondents
- Respondents database (Webinq members and non members)
- Online shared data (access and update)
- Definition of updating rules for respondents data



Survey Management System

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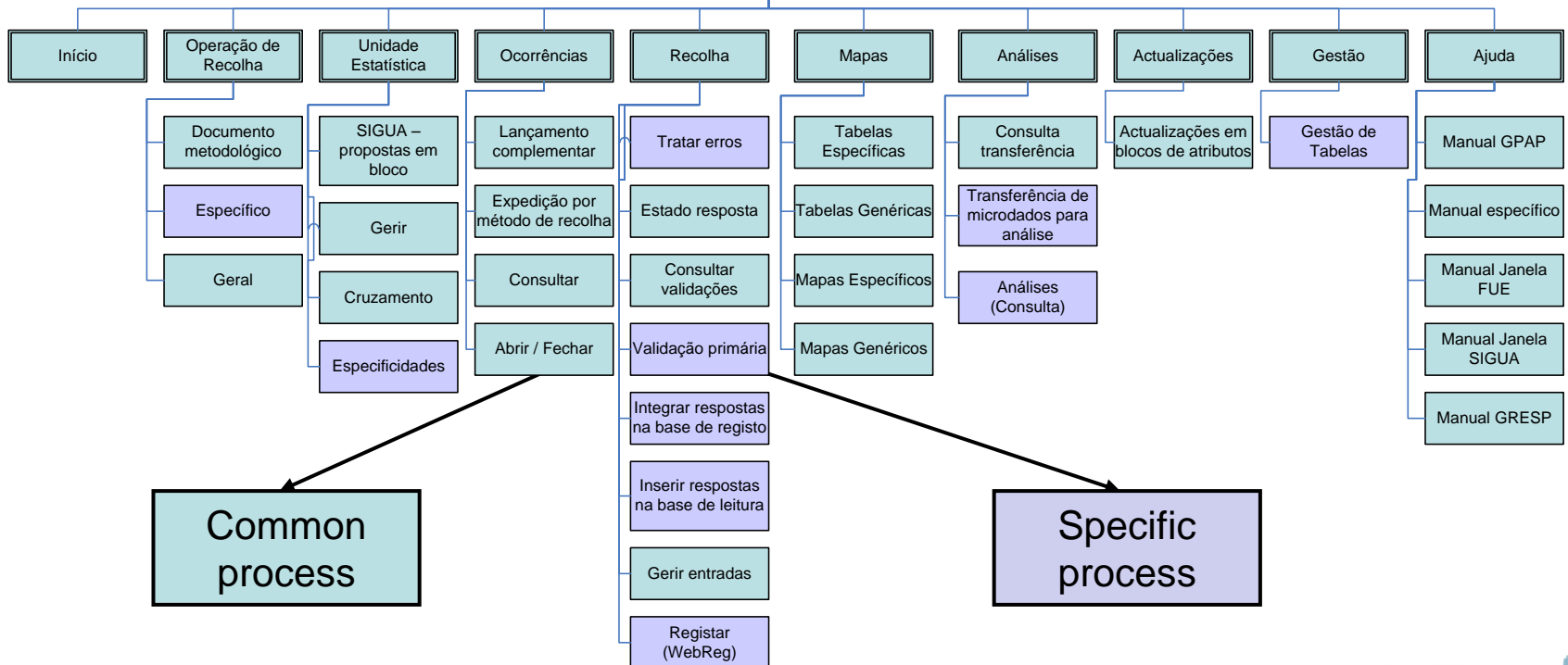
• Data Collection Process Management

- Intercommunication with:
 - Business Register (FUE)
 - Samples (SIGUA)
 - Respondents (GRES P)
- Execution and management of:
 - Common and standardized processes
 - Specific processes - according to each survey characteristics
- Transmission of validated microdata to the Data Warehouse

Survey parameterization



MENU GPAP



Survey parameterization



GPap V 3.5.2011.0 de 17-04-2012

Operação de recolha corrente: INTRA-CH (1-1) | Administração BOGPAP | Administração GPP | Administrar O.R. | Parametrizar O.R. | Utilitários | Tabelas Genéricas

Gestão de Menu da Aplicação GPAP

Gravar

Através desta opção define-se os objectos que ficam disponíveis para o menu do Projeto.

Descrição do Objecto	Selecionar Tudo
0002 - Menu - Operação de Recolha	<input checked="" type="checkbox"/>
0020 - Operação de Recolha - Geral	<input checked="" type="checkbox"/>
0021 - Operação de Recolha - Específico	<input checked="" type="checkbox"/>
0210 - Operação de recolha - Específico - Propriedades	<input checked="" type="checkbox"/>
0211 - Operação de recolha - Específico - Suporte Recolha	<input checked="" type="checkbox"/>
0212 - Operação de recolha - Específico - Suporte Expedição	<input type="checkbox"/>
0213 - Operação de recolha - Específico - Centro de Recolha	<input checked="" type="checkbox"/>
0214 - Operação de recolha - Específico - Técnico de Análise	<input checked="" type="checkbox"/>
0215 - Operação de recolha - Específico - Técnico de Recolha	<input checked="" type="checkbox"/>
0216 - Operação de recolha - Específico - Destinatários	<input checked="" type="checkbox"/>
0218 - Operação de recolha - Específico - Tipo de Declarações	<input type="checkbox"/>
0217 - Operação de recolha - Específico - Actualização em Bloco	<input checked="" type="checkbox"/>



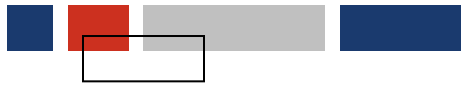


Survey Management System

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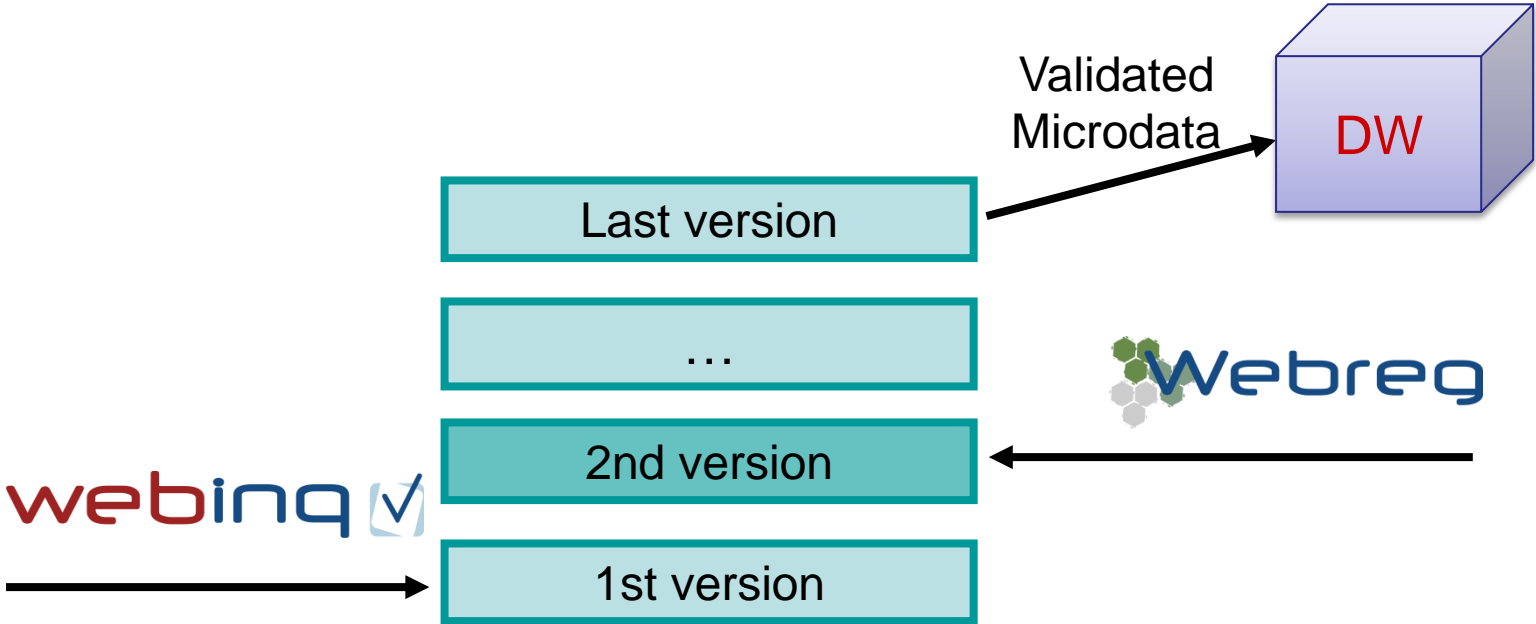


- Data Capture and Editing
 - Internet (Online responses)
 - Inside INE (Paper responses post-collection and editing)
 - Data Version Stack – Four main rules:
 - **Single** response for each tuple (survey, data reference period, statistical unit)
 - Data editing performs a **new** response version
 - **All** versions of the responses are saved
 - **Last** version goes to data warehouse.



Data Version Stack

Fue Sigua Gresp GPap Webreg webinq SICCC





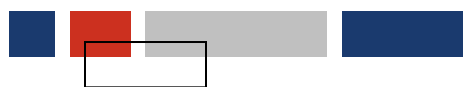
Survey Management System

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- Call Centre

- Last system to be implemented
- Integrated call center
 - Telephone
 - Mail
- Management of respondents interactions
 - Inbound
 - Outbound
- Interactions are context aware and tracked

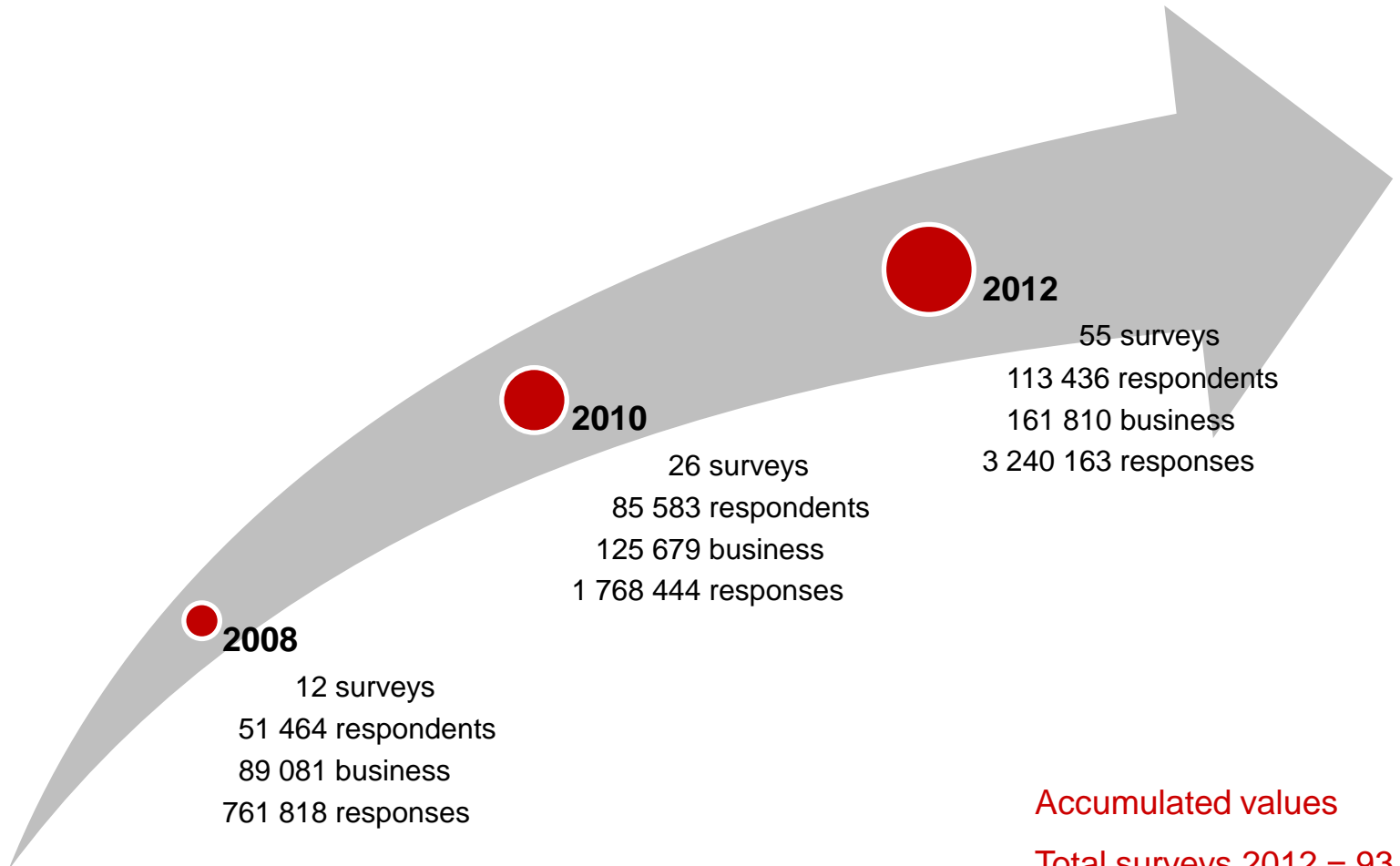


Integrate a survey (Requirements)

- Create in Metadata System (SMI)
- Register data sampling method (SIGUA)
- Parameterization (SIGUA and GPAP)
- Identify common processes to be used
- Prepare specifications and code specific processes:
 - Data capture and editing (Electronic form and Validation rules)
 - Imputation
 - Specific reports
- Guide to integrate surveys



Survey Management System



Accumulated values

Total surveys 2012 = 93



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Merci!
Thank you!
Obrigado!

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