

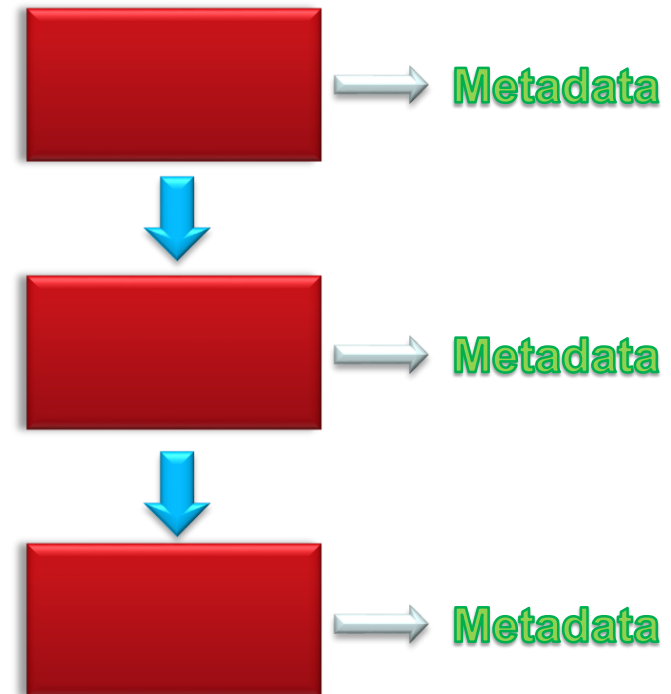
Future Turkstat Metadata Management System

Güneş İNAN VICIL
Turkstat

Metadata as an output of process

Being produced within almost all of the production processes, metadata is an integral part of the production of statistical data.

For example, while specifying needs and checking data availability, information about data sources comes out. Similarly, the process of designing data collection methodology is also the stage in which data collection frequency and method are decided.



Background – Cont'd

At present, metadata information is collected by different units of different departments using different tools in a non standardized way.

Thus, sometimes metadata demanded by those departments may overlap and subject matter units may be asked to provide the same information over and over again using different tools and standards.

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Future Metadata Management System-Cont'd

This situation prevents us to run queries, generate reports and do analysis on metadata despite the fact that there's a lot of metadata being collected within our institute.



So, by gathering up metadata information within a system using same software and metadata standards, a structure that is relational, easy to run queries and easy to analyse can be achieved.



Future Metadata Management System-Cont'd

In this regard, a Metadata Management System has been decided to be built.

For this purpose, first, metadata systems currently used were determined and relations between them and new components needed has been defined. After the logical design of the system, the components with priority have been decided and software development stage has been initiated for them.

In-house








Objectives



- Documenting metadata systematically,
- Linking data to it's metadata,
- Data and metadata dissemination using international metadata standards,
- Run queries, analysis and take reports,
- Process based metadata collection,
- Monitoring variables and other objects throughout processes,
- Decreasing workload on subject units resulting from metadata works,
- Coordinate metadata works better

Expected results

- A new perspective 
- Decrease in workload 
- Increase in efficiency 
- Process traceability 
- Metadata-driven processes and automation
- Data and metadata dissemination in compliance with international metadata standards 

Turkstat's Metadata Management System

Manuals & Other Documents

Documents:

- User manuals
- Standards defined
- Information Model
- Maintenance procedures



Turkstat MMS Software & Supporting IT Systems

- Modular structure
- Archive and change management
- Standardised contents
- Interrelated modules
- Standardisation rules applied to new content
- Expandable

Management

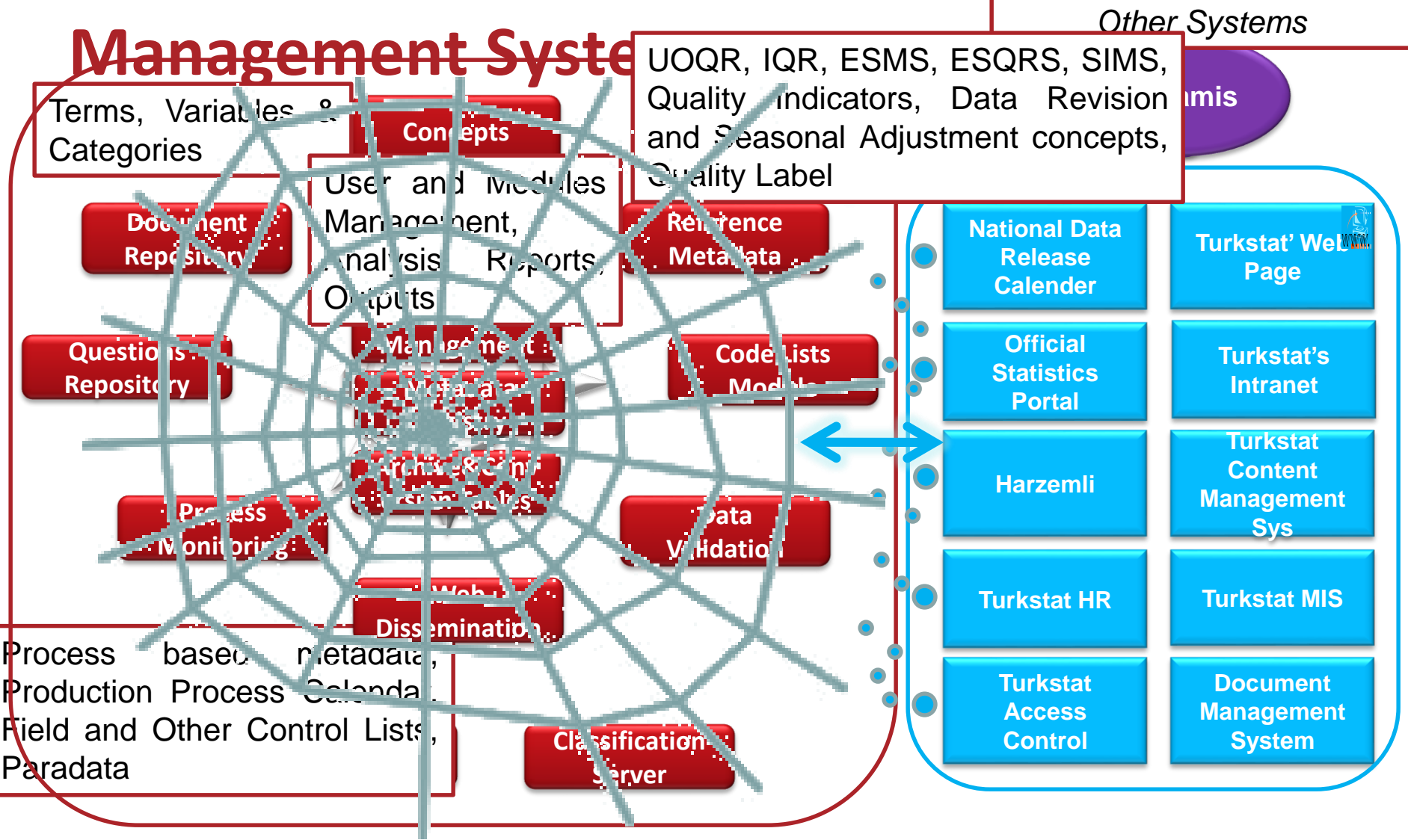
- International standards support
- Centralised & De-centralised responsibilities
- User and Modules
- Rules applied to management
- System users: types, roles and permissions
- Reports
- SRS document Outputs

Turkstat MMS Software - Properties

- Simple
- Modular → Expandible
- International standards support
- Process based
- Re-use
- User and role based
- Analysis, query and report support

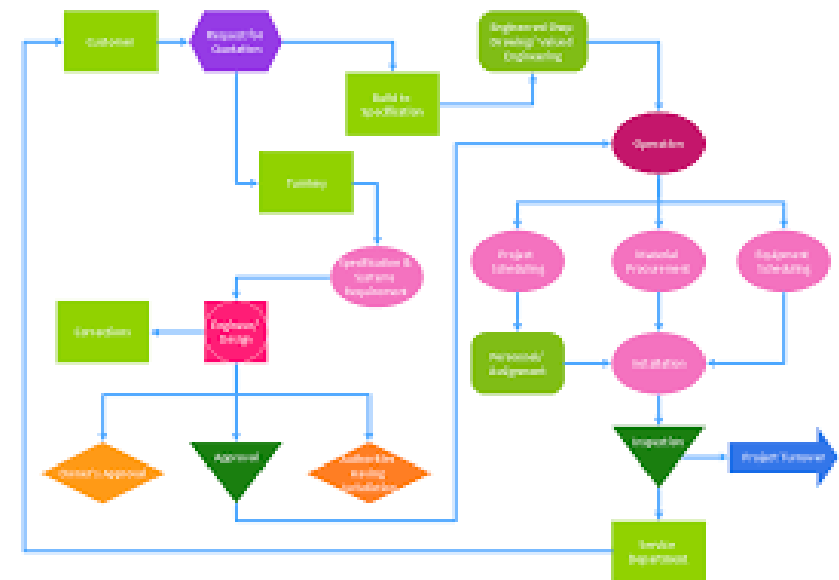


Foreseen Modules of Turkstat's Metadata Management System

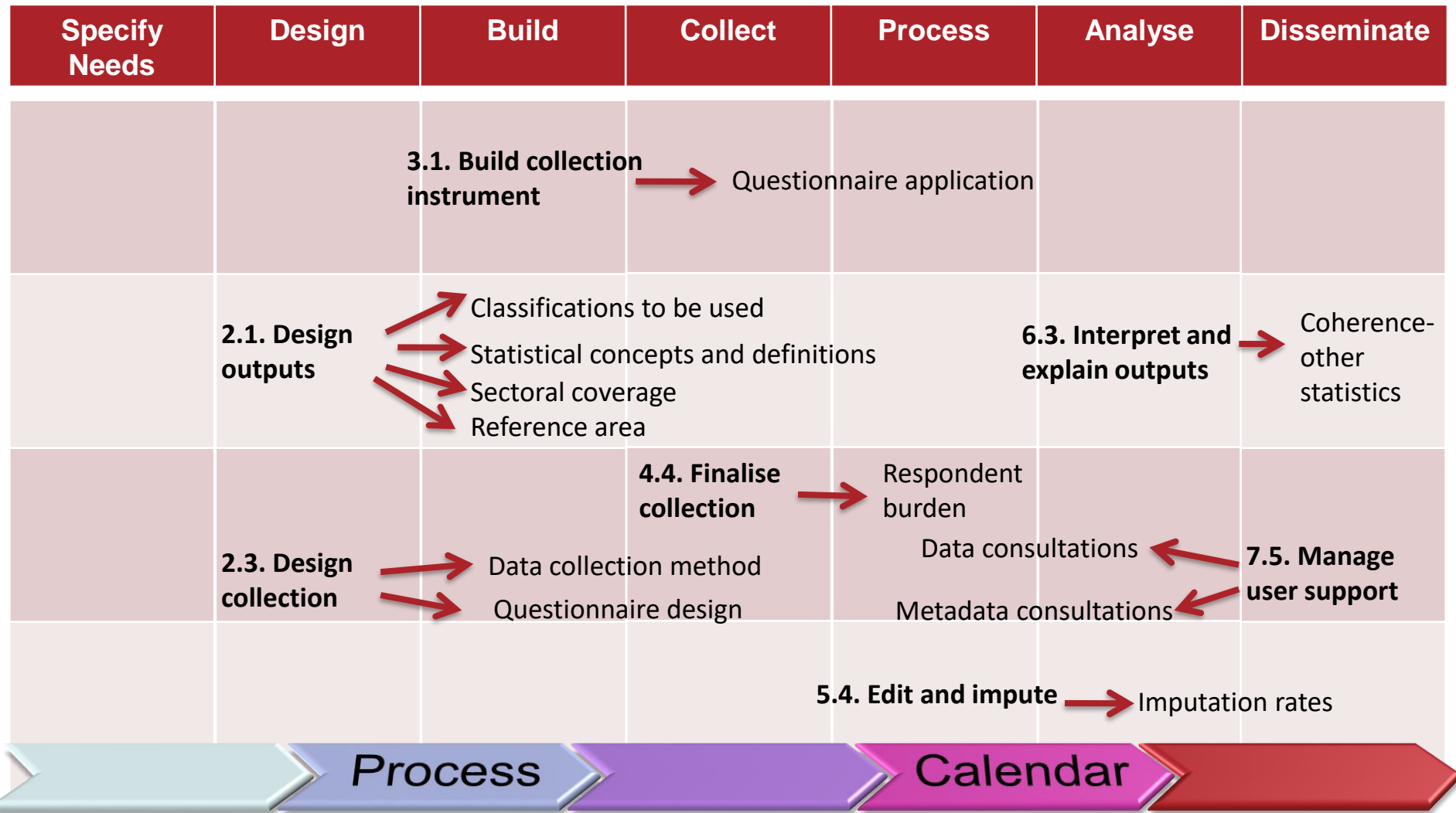


Process based metadata

- Document metadata at the moment it comes to exist
- Monitoring metadata throughout statistical processes
- Monitoring processes over metadata
- Linking processes and metadata entries with process calendar



Statistical Process and Metadata



Steps of Turkstat's Metadata Management System

Step 1. Identifying the Needs

Step 2. Specification of the standards

Step 3. Design

Step 4. Developing the Metadata Management System's Software

Step 5. Establishing a Metadata Management System Management Team

Step 6. Preparation of the User Guide and the documents related to the Standards

Step 7. Preparation of the Draft Content



Steps of Turkstat's Metadata Management System

Step 8. Introduction of Metadata Management System

Step 9. Pilot test of the Software

Step 10. Making the Provider Agreements

Step 11. Entering contents to the Modules

Step 12. Monitoring and Assessment of Metadata Management System

Step 13. Maintenance and Update

Step 14. Archiving



What we have done so far

- Implementation steps were defined.
- All modules of the MMS software was logically designed
- Manuals, rules and standards applied to Turkstat MMS was started to be prepared ([versioning rules](#), [users and permissions](#), user manual for C&D Module, etc.)
- [Reference metadata scheme](#) was prepared.
- An inventory of concepts wa prepared
- C&D Module was designed ([concepts scheme](#), database structure, [GUI's](#), [actions](#)& [status](#)'s on concepts)
- Help module was designed
- C&D Module is on development stage



Tukstat MMS- Concepts&Definitions Module GUIs

← → ↻ sina.tuik.gov.tr/mys/index.zul

Tuik Metaveri Yönetim Sistemi ENİSE KARATAŞ

Anasayfa > Yapısal Metaveri > Kavram Bankası > Kavram Listesi

Onay Bekleyen: 7

Kavram Adı

İstatistik Adı

Kavram Tipi

Durum

Tarih Başlangıç

Tarih Bitiş

Ara

Kavram Adı	İstatistik Adı	Kavram Tipi	Durum	Ekleme Tarihi	İşlemler
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Aile	<input type="text"/>	Terim	Oluşturuldu	10.01.2018	<input type="button" value="Guncelle"/> <input type="button" value="Onaya Gönder"/> <input type="button" value="Önizle"/>
Alt Kademe Belediyesi	<input type="text"/>	Terim	İçerik reddedildi	20.12.2017	<input type="button" value="Guncelle"/> <input type="button" value="Reddedildi"/> <input type="button" value="Önizle"/>
Alt Kademe Belediyesi	<input type="text"/>	Terim	İçerik onaylandı	29.12.2017	<input type="button" value="Guncelle"/> <input type="button" value="Onaylandı"/> <input type="button" value="Önizle"/>
Alt kademe (Bknz. Alt Kademe Belediyesi)	<input type="text"/>	Terim	İçerik onaylandı	29.12.2017	<input type="button" value="Guncelle"/> <input type="button" value="Onaylandı"/> <input type="button" value="Önizle"/>

Thank you for your attention...