

# Quality assurance framework applications in Turkish Statistical System

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# Vision of Turkish Statistical Institute (*Turkstat*) (2012-2016)



# Continuous improvement cycle



**A chain is only as strong as its weakest link**

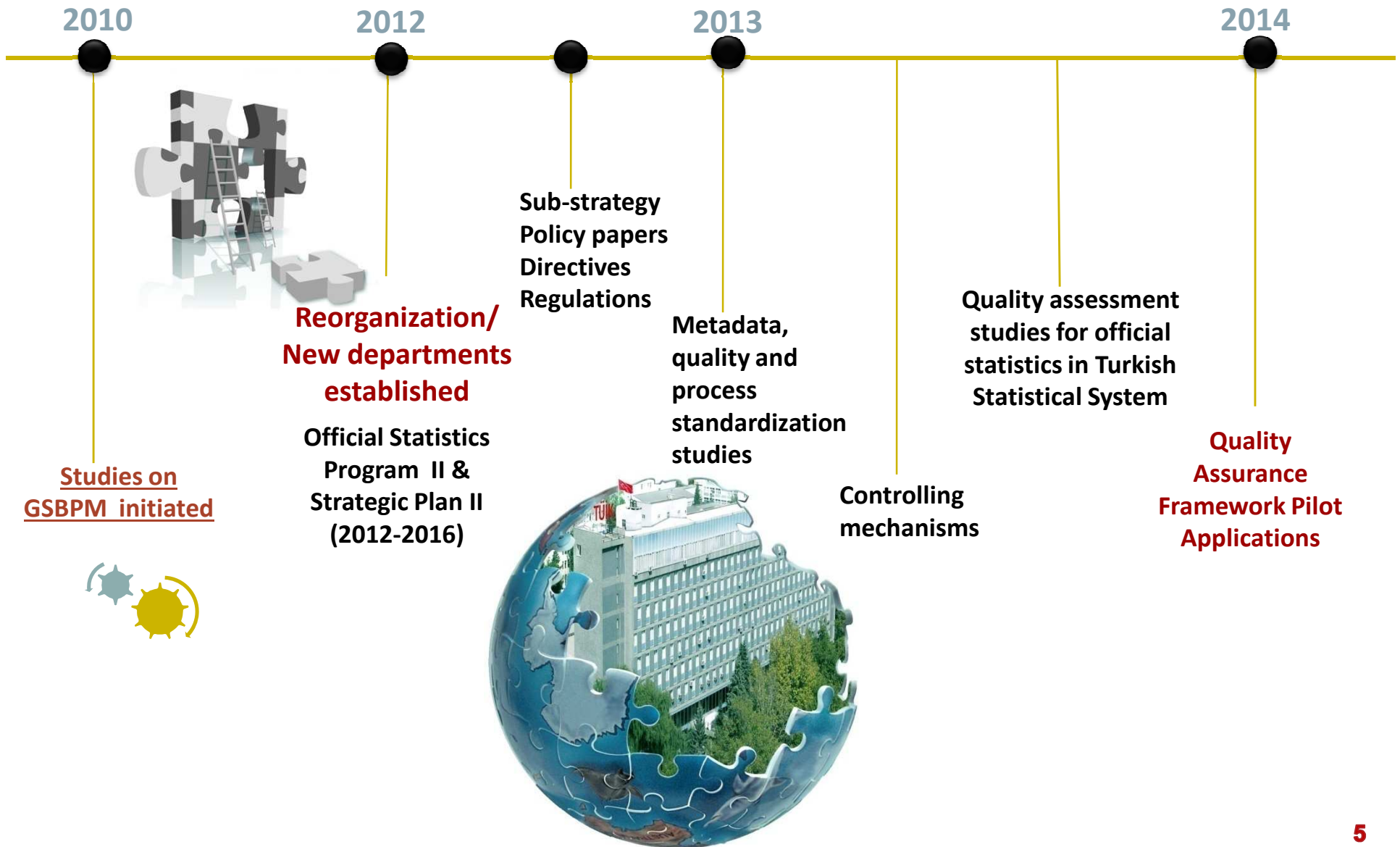


# The role of TurkStat in Turkish Statistical System

- Determining standards
- Monitoring the performance of tasks assigned by the Official Statistics Program to the institutions and organizations in relation to official statistics.
- Performing quality controls and providing technical support
- Managing the Turkish Statistical System
- Ensuring the cooperation and coordination

Turkish Statistics Law defines the quality principles indicated in CoP

# Process-oriented reorganization and developments



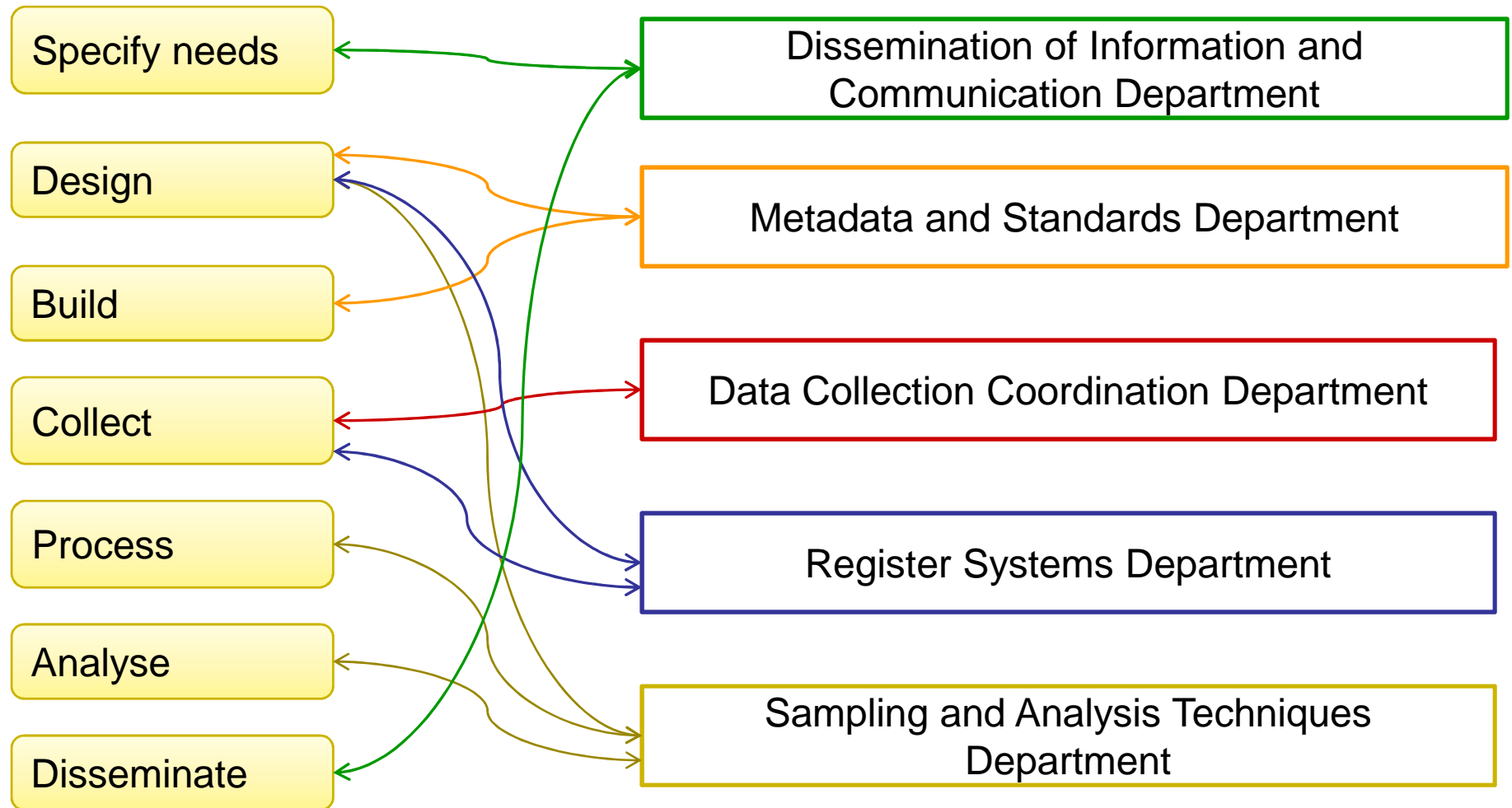
# TurkStat's Statistical Business Process Model

## Quality Management / Metadata Management

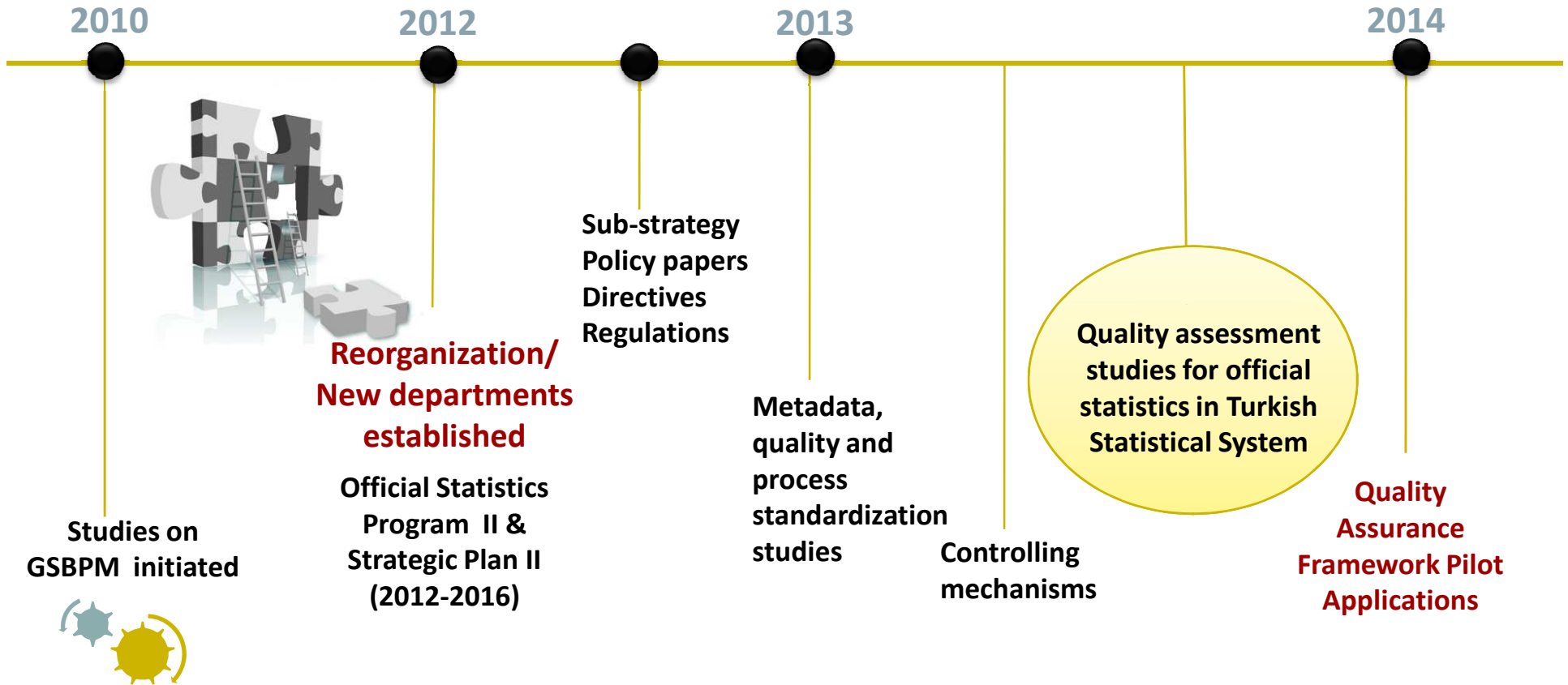
1.Specify Needs	2.Design	3.Build	4.Collect	5.Process	6.Analyse	7.Disseminate
1.1.Determine needs for information	2.1.Design statistical products and outputs	3.1.Build and develop production system components	4.1.Establish frame and registers, select sample	5.1.Clasify and code	6.1.Evaluate the information for its effect	7.1.Update dissemination systems
1.2.Consult and confirm needs	2.2.Design frame and sample methodology	3.2.Integrate production system with other systems	4.2.Set up collection	5.2.Micro-edit	6.2.Produce statistics	7.2.Produce dissemination products
1.3.Establish output objectives	2.3.Design data collection methodology	3.3.Test production system	4.3.Run collection	5.3.Macro-control	6.3. Ensure statistical quality	7.3.Manage release of dissemination products
1.4.Check data availability	2.4.Design statistical processing and analysis methodology	3.4. Finalize production system	4.4.Finalize collection	5.4.Impute	6.4.Examine and evaluate statistics	7.4.Manage user queries
1.5.Prepare business plan	2.5.Design production systems and workflows			5.5.Calculate weights and derive variables	6.5.Prepare statistics for dissemination	
					6.6.Finalize content	



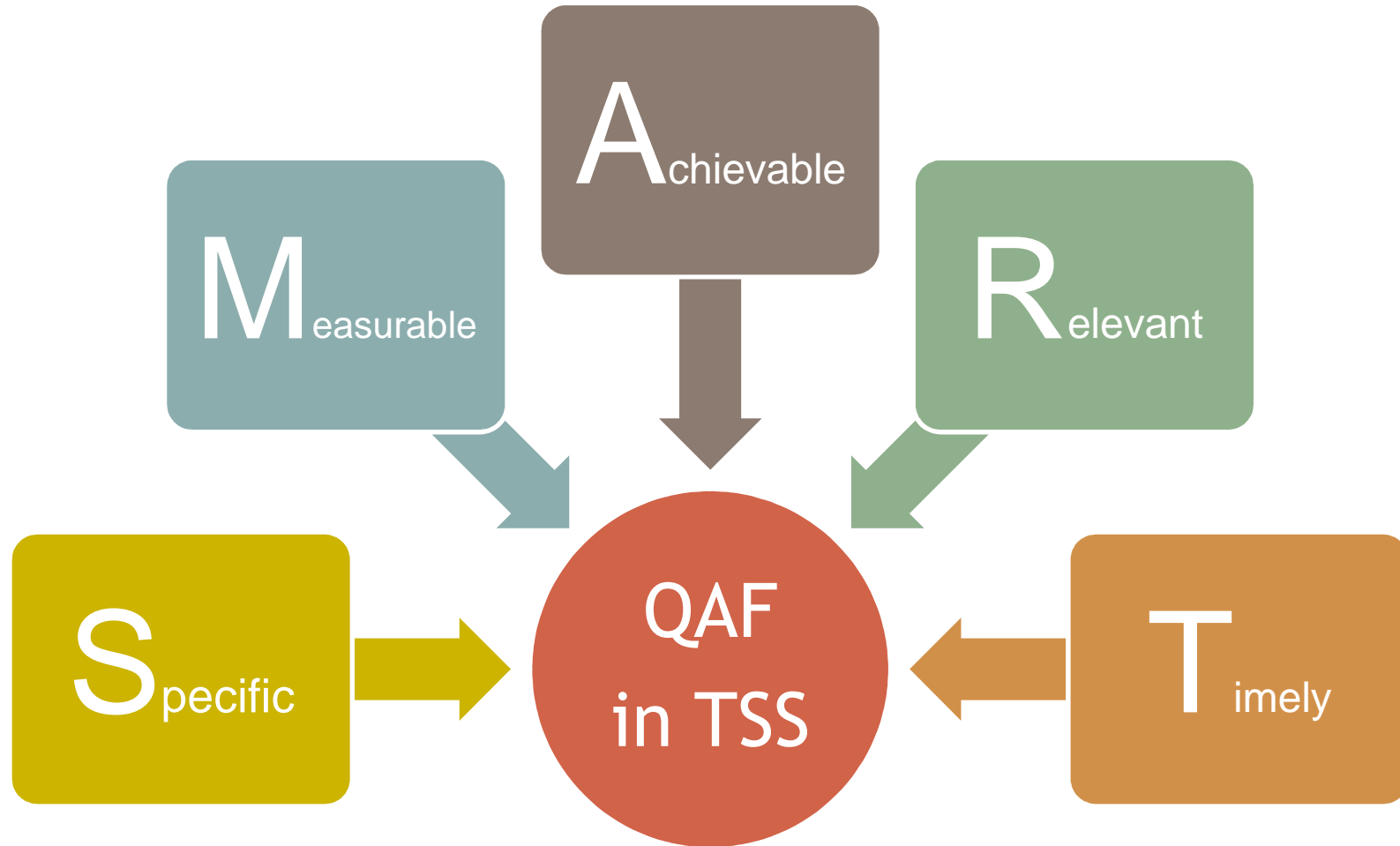
# Process oriented structure

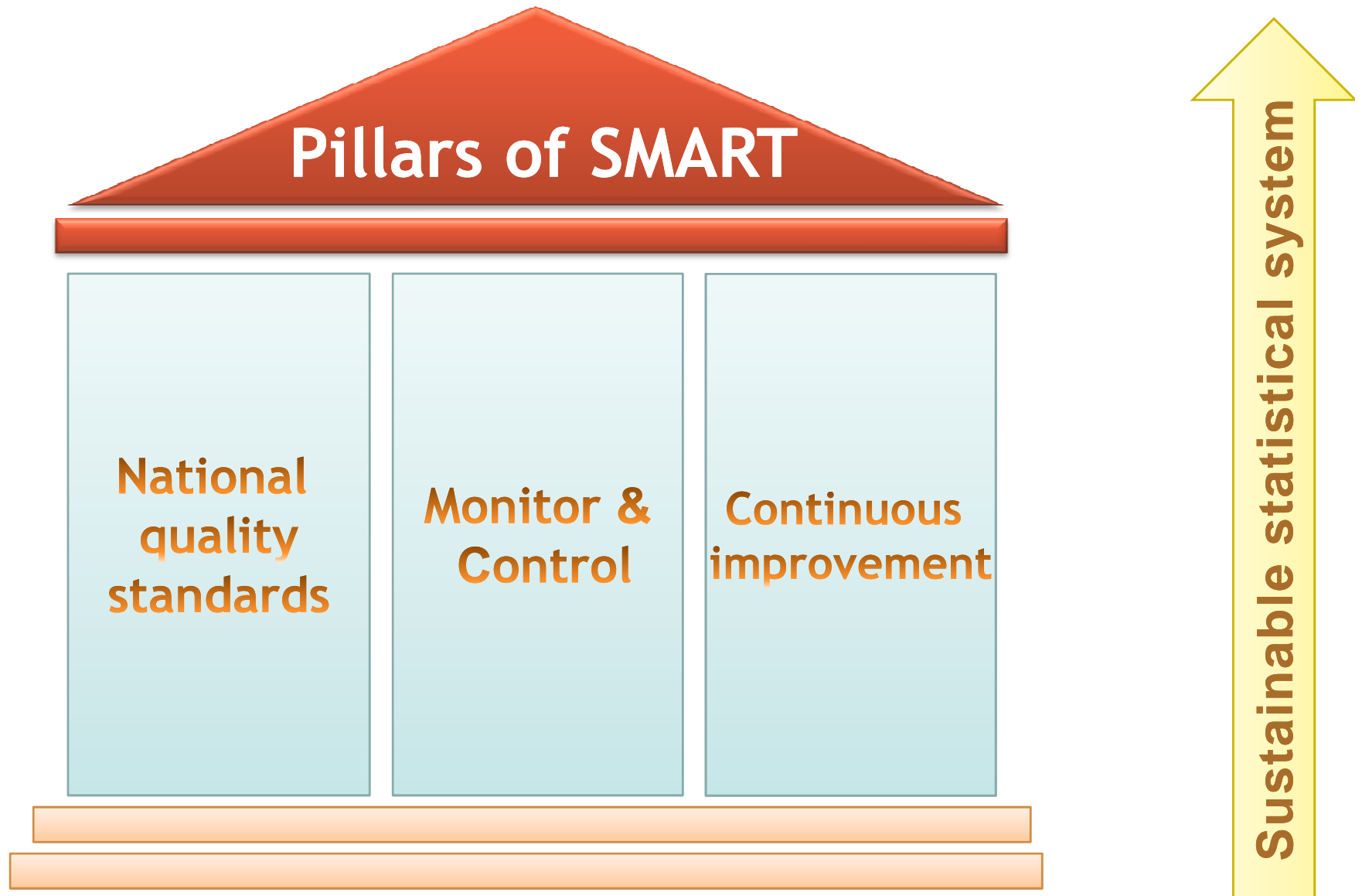


# Process-oriented reorganization and developments









# Quality Assurance Framework in TSS



# Quality Accreditation Process for Official Statistics




## Objectives of quality assessment process

- to prepare a "Data Source Inventory"
- to determine cooperation activities
- to specify the current situation of “to what extent” the user needs taken into account
- to obtain the documentation of statistical production processes
- to determine the level of compliance with quality principles and standards
- to specify quality improvement actions
- to prepare a "Quality Assessment Report”

# Quality Evaluation Questionnaire

1. General information
2. Data sources and cooperation
3. Specifying user needs
4. Data collection
5. Classifications
6. Data process and analysis
7. Dissemination of official statistics
8. Opinions and recommendations




**Resmî İstatistikleri Değerlendirme Formu, 2014**



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**ÇIKLAMA:**  
 u değerlendirme formu ile elde edilen veriler; resmî istatistiğin ürün ve süreç kalitesi açısından değerlendirilmesinde emel girdi olarak kullanılacaktır. Kalite değerlendirmesi, AB tarafından benimsenen resmî istatistik uygulama ilkeleri (CoP) sas alınarak hazırlanan "Ulusal Kalite Standartları" doğrultusunda gerçekleştirilecektir.  
 u form; resmî istatistiğin dağıtımı ya da yayımından sorumlu kurumlar tarafından ilgili kurumlarla işbirliği çerçevesinde, esmî İstatistik Programı (RİP)'de yer alan her bir resmî istatistik (alt konu) bazında doldurulacaktır.

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**GENEL BİLGİLER**

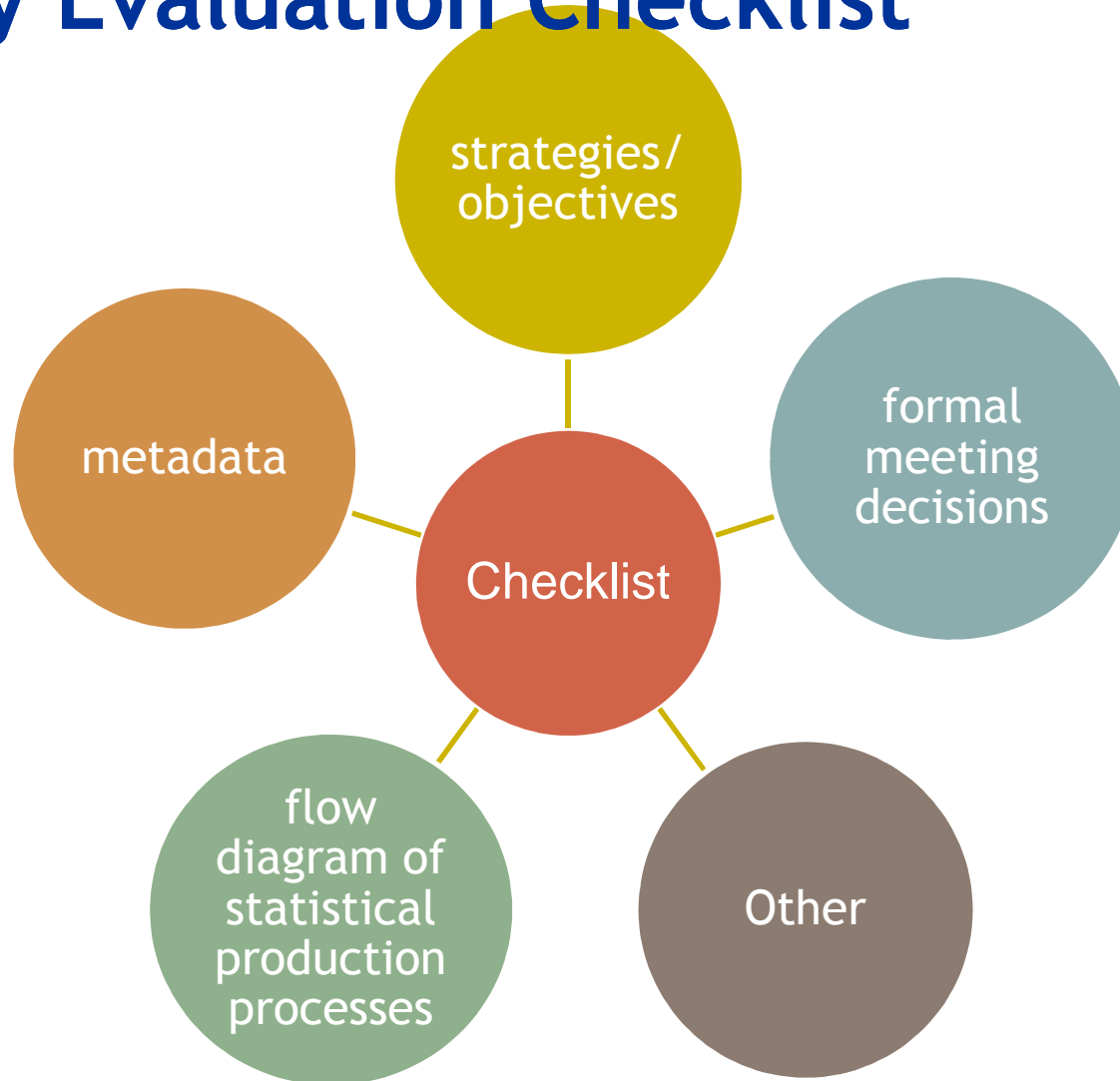
kurum/Kuruluşun Adı : \_\_\_\_\_  
 esmî İstatistik (RİP Alt konu) adı (x) : \_\_\_\_\_  
 esmî İstatistik'in RİP'teki Sıra Numarası : \_\_\_\_\_  
 stiyim Dilgileri : \_\_\_\_\_  
 Anketi dolduran kişinin adı/soyadı : \_\_\_\_\_  
 Anketi dolduran kişinin telefonu : \_\_\_\_\_  
 Anketi dolduran kişinin e-posta adresi : \_\_\_\_\_  
 Formu dolduran birimin adı : \_\_\_\_\_  
 Formu dolduran birimin telefonu : \_\_\_\_\_  
 Formu dolduran birimin e-posta adresi : \_\_\_\_\_

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Resmî istatistik hangi amaçla üretiliyor? (birden fazla seçenek işaretlenebilir)

Ulusal ya da yerel politikaları oluşturmak/kararları almak   
 Ulusal ya da yerel politikaları/kararları izlemek/değerlendirmek   
 Kurum faaliyetlerini izlemek/değerlendirmek   
 Kamu hizmeti sağlamak   
 Diğer kurum/kuruluşların taleplerini karşılamak   
 Formun RİP Alt konusuna girip girmediğini belirlemek için

# Quality Evaluation Checklist







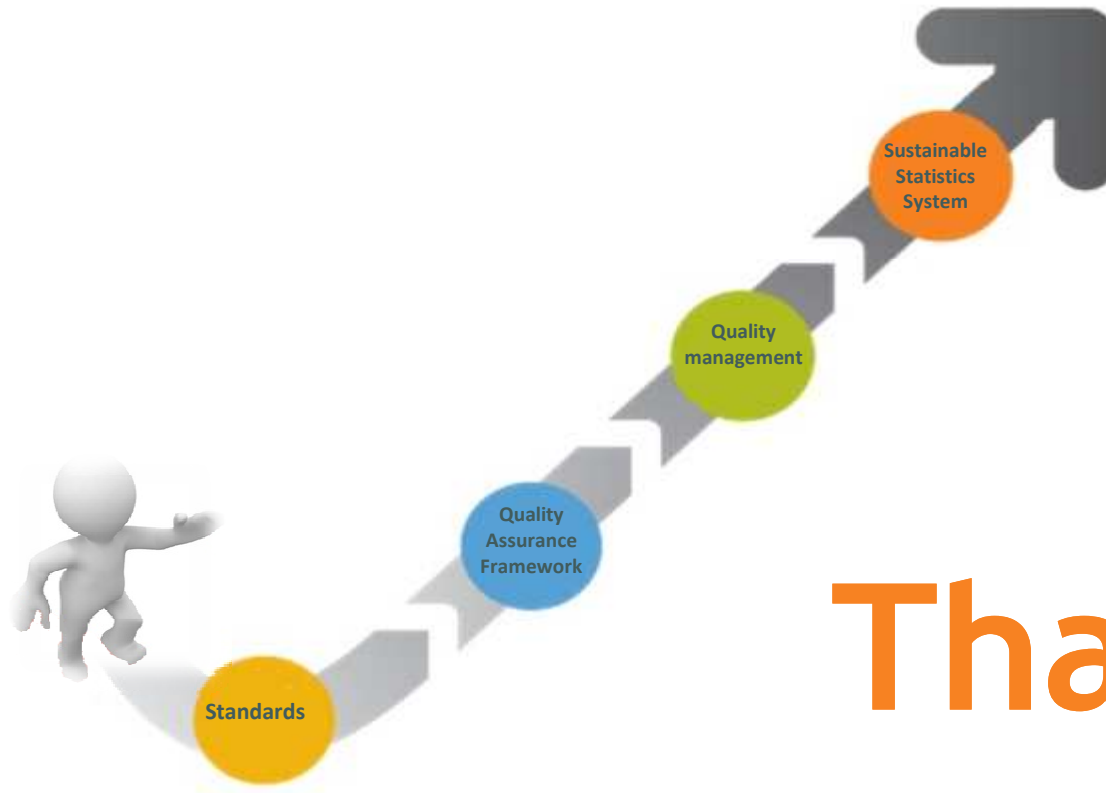
# Major requirements for quality accreditation

- a separate statistical unit and adequate staff graduated from statistics
- metadata standards and publishing/updating
- internal consistency of administrative data
- accuracy and reliability
- international definitions, methodology and classifications in the production of official statistics
- appropriate statistical procedures

# Pilot Applications



*"The journey of a thousand miles begins with one step"*  
**Lao-Tzu**



**Thank you**