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بتمويل من الاتحاد الأوروبي



EU Twinning Project on
Statistics in Jordan

Twinning Project

Strengthening the capacity of Jordan's Department of Statistics

Implementing Partners





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تمّ إعداد هذه الوثيقة بدعم ماليّ من الاتحاد الأوروبي ويتحمل شركاء تنفيذ مشروع التوأمة
المسؤولية الكاملة لمحتواها الذي لا يعكس بالضرورة مواقف الاتحاد الأوروبي



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دائرة الإحصاءات العامة
Department of Statistics

Kick-off event of the Twinning Project

Strengthening the capacity of Jordan's Department of Statistics

Kempinski Hotel Amman, Jordan
06 February 2023





EU Twinning Project on
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Expert on use of administrative data – Denmark

Mr. Carsten Zangenberg
Director - Methodology, Communication and Sales
Statistics Denmark

What is administrative data?



Data which are originally collected by **public authorities** for their own purposes

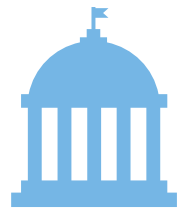


Usually organised and structured in **administrative registers**



Administrative registers are a **valuable asset** also for producing statistics

How administrative data flows from data owners to end-users of statistics



1
Data are collected in registers as by-product of admin. routines



2
Producing statistics
Creating knowledge



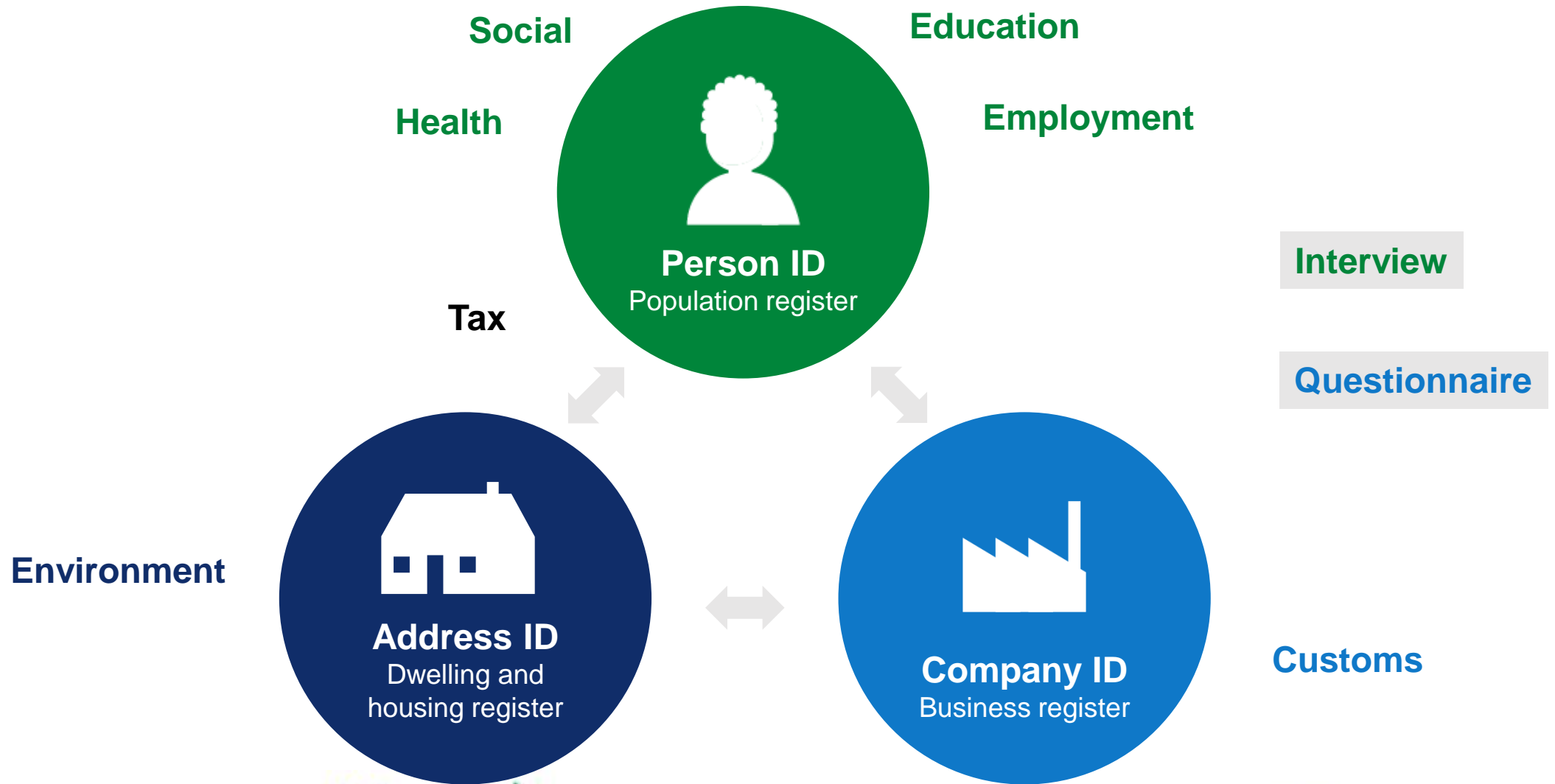
3
Dissemination of statistics to users in society



Delegation of the European Union to Jordan



The statistical information system



Delegation of the European Union to Jordan



What are (absolute) conditions?

- Adequate **data protection** to ensure **trust**
- Establishing a **legal framework** for access to administrative data by statistical institution
- **Willingness to share** administrative data and cooperation across governmental agencies
- **Data sharing agreements** (MoU) with data owners regarding content and conditions
- Systematic use of **unique identifiers** in administrative procedures to allow linking different registers
- Establishing **IT infrastructure**
- Time and patience



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What are the benefits?



- **Efficient** public administration and better service for citizens and enterprises
- Statistics at **low costs**
- **High quality** statistics - more and better data coverage, coherence, comparability, accuracy
- Scope for better **policy analysis**
- **Research opportunities** based on integrated, coherent, longitudinal data
- **Lower respondent burdens** for companies and citizens



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What are the challenges?



- Privacy concerns
 - The fear of Big Brother
 - Risks associated with data security breaches
 - Political pressure for administrative use of statistical data
- Covers only data available in administrative registers
- Vulnerability to changes in administrative procedures



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Department of Statistics



How to proceed

A stepwise approach

1. Establish the necessary understanding for the use of administrative data
2. Establish the legal and institutional framework
3. Use existing administrative registers – also if they cannot be linked across due to lack of unique identifiers
4. Once unique identifiers are established, link data across registers



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Department of Statistics





EU Twinning Project on
Statistics in Jordan

Junior Project Leader – Germany

Mr. Christoph Unger

Vice president

The Federal Statistical Office (Destatis), Germany

Step 1: National requirements and possibilities

- Complete overview of existing registers
- Developing a framework for quality assessment of registers
- Research on over- and undercoverage of existing registers
- Developing individual solutions

Twinning Project on Statistics
JO 21 ENI ST 01 22

Activity 1.2.2: Population Statistics

Conclusions from STE
16. – 19. January 2023

Ms. Kaija Ruotsalainen, Statistics Finland
Ms. Milda Šličkutė-Seštokiienė, Statistics Lithuania, State Agency
Mr. Stefan Dittrich, Federal Statistical Office in Germany (Destatis)

The slide features a blue background with a white 'TWINNING' logo in the top right corner. At the bottom, there is a row of flags representing the participating countries: Jordan, the European Union, Denmark, Germany, Italy, Lithuania, and Finland. To the right of the text, there is a vertical stack of images including a bar chart, a person, and a document.



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Steps to a register census in Germany

Census 2000?

destatis.de

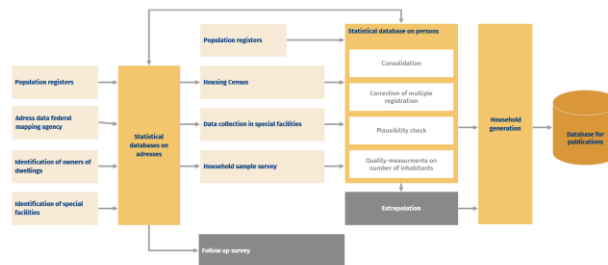
- Skipped
- Tests for a future register based census
- Comparison of register data and a sample survey

Federal Statistical Office (Destatis)

25.01.2021 5

Census 2011 and 2022: multiple source mixed model

destatis.de



Federal Statistical Office (Destatis)

25.01.2021 6

wissen.nutzen.

AFTER 2022: MODULES OF THE REGISTER CENSUS

Module	Register	
people	A population	Civil registers
	B labour	Several registers, e.g. national work agency
	C education	Statistical register on education
D Households and families	Civil register and register on buildings and dwellings	
E Buildings and dwellings	Register on buildings and dwellings	

© Statistisches Bundesamt (Destatis) | Abteilung F - Projekt Registerzensus

5



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Requirements on Census in Germany

- after Census 1987
- reduce burden on population and cost
- use modern concepts of data collection
- maintain high quality of number of inhabitants – national and regional
- attention on judgement of highest national court on data privacy
- fulfill all EU obligations
- after Census 2022
- more variables, geocoding, more frequent updates



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Considering new possibilities



Fernerkundungsdaten

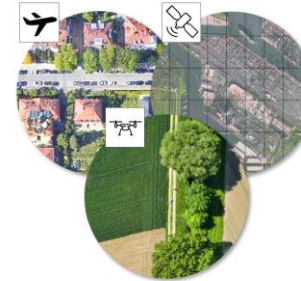
Satellitendaten



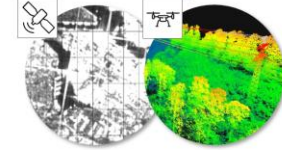
Luftbilder



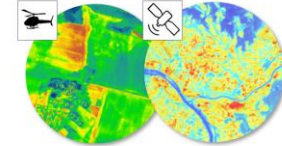
Optische
Fernerkundungsdaten



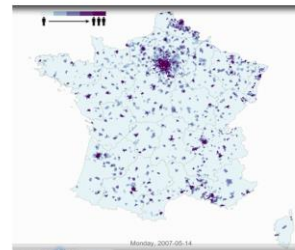
Radar- und Laser-
Fernerkundungsdaten



Thermal-
Fernerkundungsdaten



Population Mapping Using Mobile Phone Data



Deville, Pierre, et al. "Dynamic population mapping using mobile phone data." Proceedings of the National Academy of Sciences 111.45 (2014): 15888-15893.



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EU Twinning Project on
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Project Leader – Denmark

Mr. Peter Bohnstedt Anan Hansen
Chief Adviser, International Consulting, Statistics Denmark

Consortium



➤ **Lead MS**



➤ **Junior MS**



➤ **Junior MS**



STATISTICS LITHUANIA
STATE DATA AGENCY

➤ **Junior MS**

- NSI's
- Members of the ESS
- Committed to ESS-COP
- Coordinate and produce official national statistics
- Experience with the Twinning instrument
- History of successful cooperation between partners in several international cooperation projects including Twinning



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➤ **Additional MS partners / STE:**

- Implementing partner: Statistics Finland
- STE: Other NSI outside the consortium and implementing partner can be mobilized case by case

➤ **A genuine cooperation between equal partners**

- Based on local conditions and best practices
- Focus on working together
- Not one-way technical assistance



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Overall objective

- To strengthen the capacity of Jordan's Department of Statistics in terms of compilation, analysis and reporting of statistical data in line with International and European best practices:
 - *To strengthen and develop Jordan's business and population statistics in line with best international practice through the incorporation of administrative data sources*
 - *To enhance DoS statistical outputs by developing new policy-oriented statistics and updating and strengthening current methodologies particularly for survey-based data*



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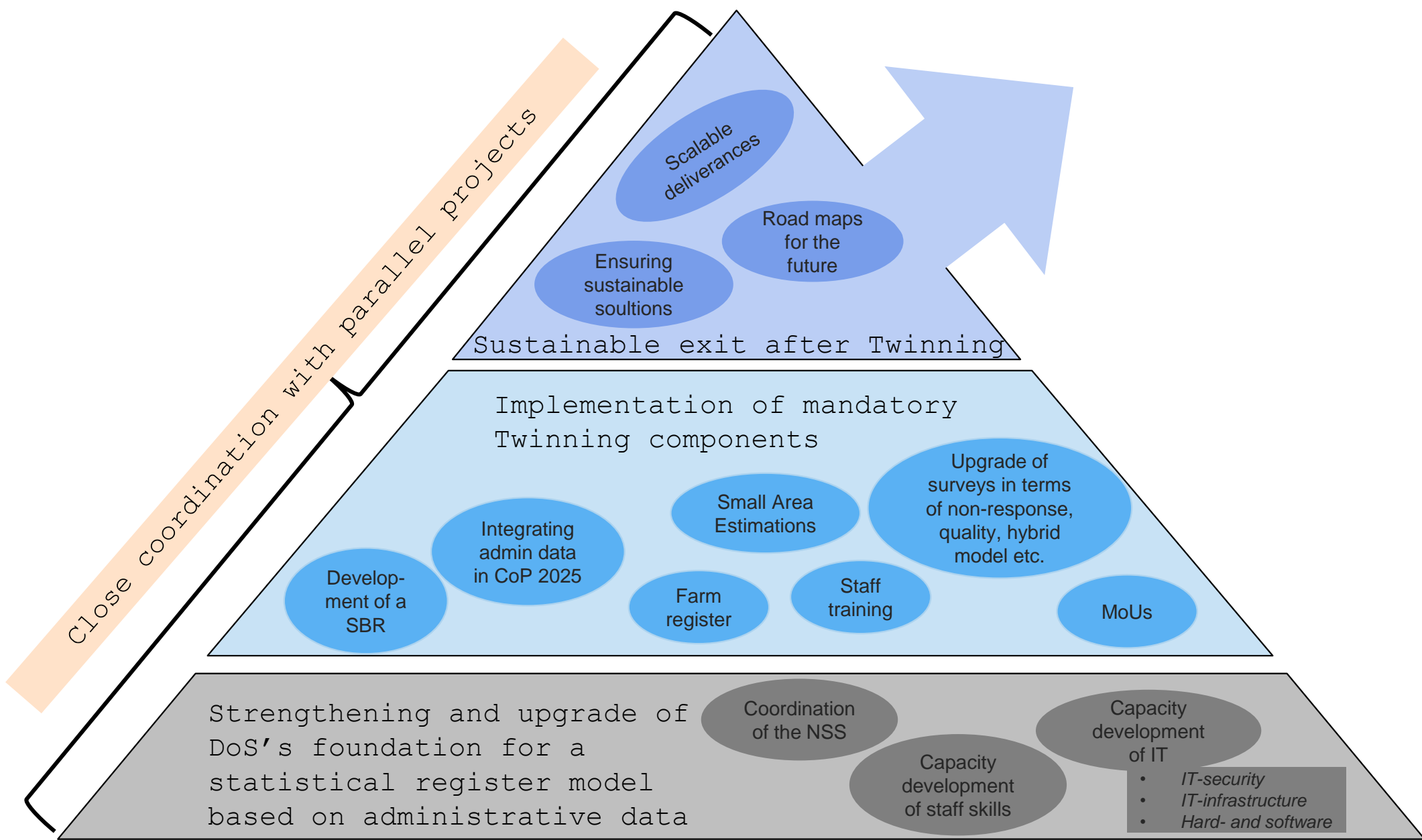
Components of the Twinning Project

- **Component 1:** To prepare a roadmap for the development of an integrated administrative data system for Jordan, and conduct pilot projects on creating an SBR and strengthening population statistics
- **Component 2:** To review and develop the source data and methodology for producing Small Area Statistics
- **Component 3:** Develop strategy for dealing with missing or erroneous data



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Key to successful Twinning

- **Rolling Work Plans continuously discussed and evaluated**
 - Common understanding of mandatory results
 - Break down of Mandatory Results into specific and measurable benchmarks and actions
 - Stakeholder acceptance / involvement
 - Coordination with parallel projects
- **Turning outputs into effects ~ during the project**
 - Early and concrete deliverables
- **Permanent RTA-project office in DoS through the entire project life time**
 - Integrating into DoS
 - Meetings, discussions, planning and evaluation on a daily basis
- **Establishing good relations with the DoS, the EUD and MoPIC**



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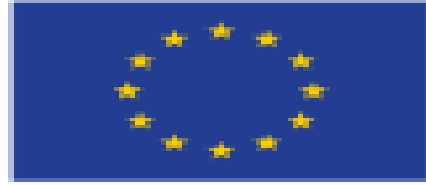




EU Twinning Project on
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RTA Counterpart – Jordan

Eng. Mohammed Khalaf
Director of Sustainable Development Unit
Department of Statistics, Jordan

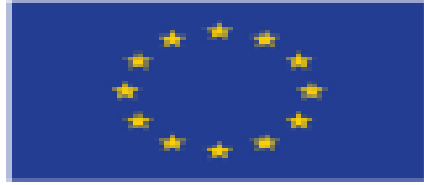


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Twinning project Synergies with other projects in DoS

**Eng. Mohammad Khalaf
RTA Counterpart**



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World Bank: Strengthening DoS's analytical reporting capacity

World Bank: Establishment of Integrated Electronic Infrastructure

NA project: Improved inputs

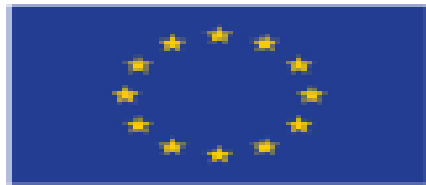
ONS: Introduction to the National Statistical Strategy - Administrative registers

First outcome:

Compile an inventory of administrative data on business and households and an indicative roadmap for inclusion in an integrated system

World Bank: Inventory of Statistical Data Producers and Providers

Component 1: Developing an integrated administrative data system



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World Bank: /Strengthening DoS's analytical reporting capacity

World Bank: Establishment of Integrated Electronic Infrastructure

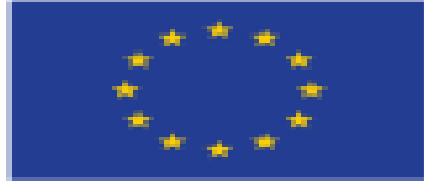
NA Project: Improved inputs

ONS: Introduction to the National Statistical Strategy - Administrative registers

Second outcome:
Develop a strategy to integrate administrative data sources to establish a national SBR

World Bank: Inventory of Statistical Data Producers and Providers

Component 1: Developing an integrated administrative data system



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World Bank: Strengthening DoS's analytical reporting capacity

World Bank: Establishment of Integrated Electronic Infrastructure

NA project: Improved inputs

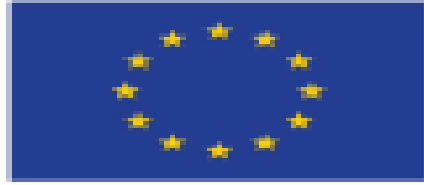
ONS: Introduction to the National Statistical Strategy - Administrative registers

Third outcome:

Use administrative records to strengthen population statistics and benefit from it for the CoP 2025

World Bank: Inventory of Statistical Data Producers and Providers

Component 1: Developing an integrated administrative data system



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NA project: Improved inputs

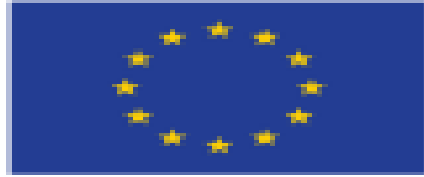
UNSD Project: Improving Sustainable Development Data

Fifth outcome:

Develop training materials for using administrative register for statistical purposes

World Bank: Providing of training in administrative registers

Component 1: Developing an integrated administrative data system



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NA project: Improved inputs

UNSD Project: Improving Sustainable Development Data

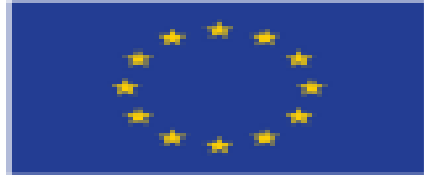
World Bank: Strengthening DoS's analytical reporting capacity

First outcome:

Use administrative data sources for small area statistics

World Bank: Provide necessary training for ancillary software

Component 2: small area statistics



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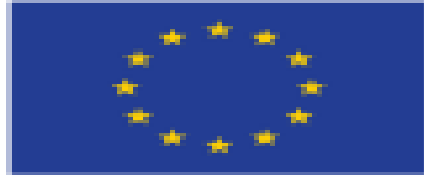
World Bank: Enhancing Statistical Data Production

World Bank: Enhanced production of statistical reports

Second outcome:
Establish a methodology to produce SAS in poverty related fields and applying it in other statistical areas

World bank: Training in SAE in poverty related fields

Component 2: Small area statistics



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World Bank: Strengthening the outputs of national statistical work

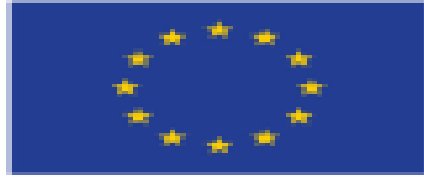
ONS: Building the National Statistical Strategy

UNSD Project: Improving Sustainable Development Data

Third outcome: Development of training manuals for the use of DoS and partner institutions in small area statistics

World Bank: Partners' capacity-building in small area estimation

Component 2: Small area statistics



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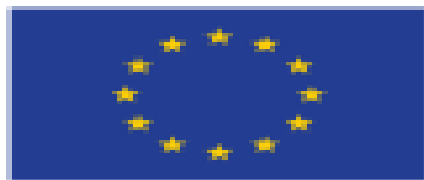
ONS: The National Statistical Strategy

UNSD Project: Improving Sustainable Development Data

Fourth outcome: Implementation of the stakeholders' communication strategy on the enhancing of small area statistics

World Bank: Inventory of Statistical Data Producers and Providers

Component 2: Small area statistics



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NA project: Improved inputs

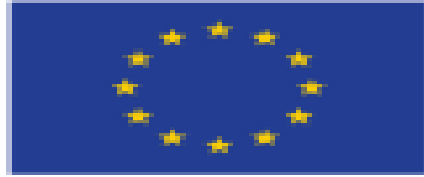
World Bank: Enhanced production of statistical reports

First outcome:
Review current methodology for dealing with missing or erroneous data by sector, and make recommendations

NA Project: Revision of Economic Statistics methodology

World Bank: Review of methodologies in the Department of Statistics

Component 3: Develop strategy for dealing with missing or erroneous data



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NA project: Improved inputs

World Bank: Enhancing Statistical Data Production

World Bank: Enhanced production of statistical reports

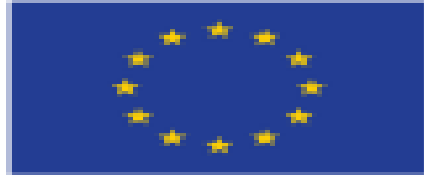
Second outcome:

Farm register updated using administrative data, improved sampling framework for agricultural surveys and enhanced agricultural statistics

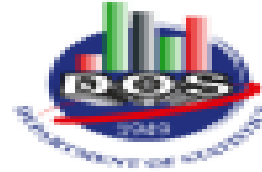
NA project: Revision of Economic Statistics methodology

World Bank: Review of methodologies in the Department of Statistics

Component 3: Develop strategy for dealing with missing or erroneous data



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NA project: Improved inputs

World Bank: Enhancing Statistical Data Production

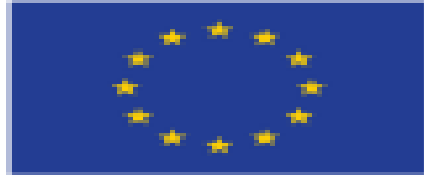
World Bank: Enhanced production of statistical reports

Third outcome:
Quality framework for surveys' data reviewed and recommendations made

NA project: Revision of Economic Statistics methodology

World Bank: Review of methodologies in the Department of Statistics

Component 3: Develop strategy for dealing with missing or erroneous data



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NA project: Improved inputs

World Bank: Enhancing Statistical Data Production

World Bank: Enhanced production of statistical reports

Fourth outcome:
Developing and revising staff training programs to improve response rates in surveys

NA project: Revision of Economic Statistics methodology

World Bank: Review of methodologies in the Department of Statistics

Component 3: Develop strategy for dealing with missing or erroneous data



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Department of Statistics

Thank you for your attention

