

eSCAD: Data Collection and Dashboard in Abu Dhabi

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Introduction

- Statistics Centre Abu Dhabi (SCAD) was established in accordance with Law #7 (2008).
 SCAD is responsible for the collection, classification, storage, analysis and dissemination of official statistics covering social, demographic, economic, environmental and cultural indicators.
- In this presentation, SCAD will present its case study with eSCAD project.
- eSCAD project seeks to apply innovative techniques to administrative data collection process and the dissemination of statistics.
- This presentation will benefit any NSO considering implementing the same innovation used in SCAD.

Overview

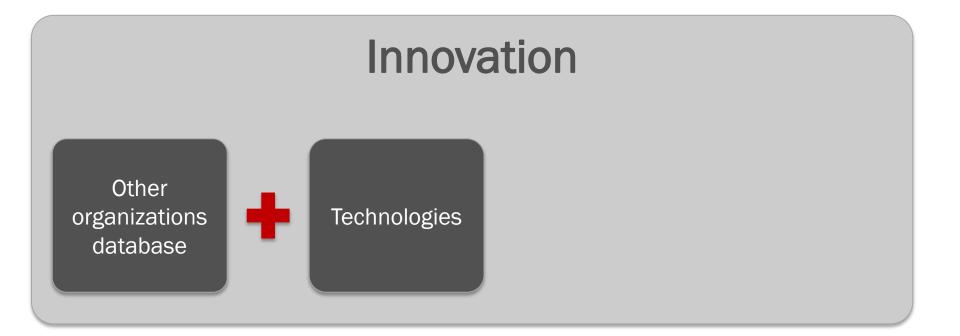
- eSCAD Objective
- eSCAD Project Scope
- Needs Analysis and Project Goals
- Data Collection Component
- Dashboard Dissemination Component
- eSCAD Project Key Results

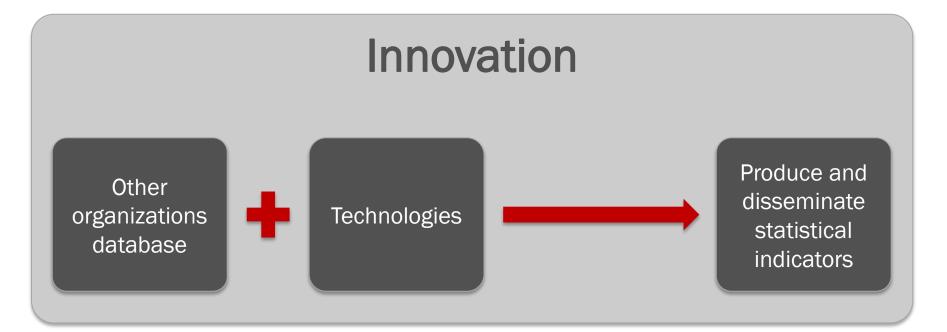


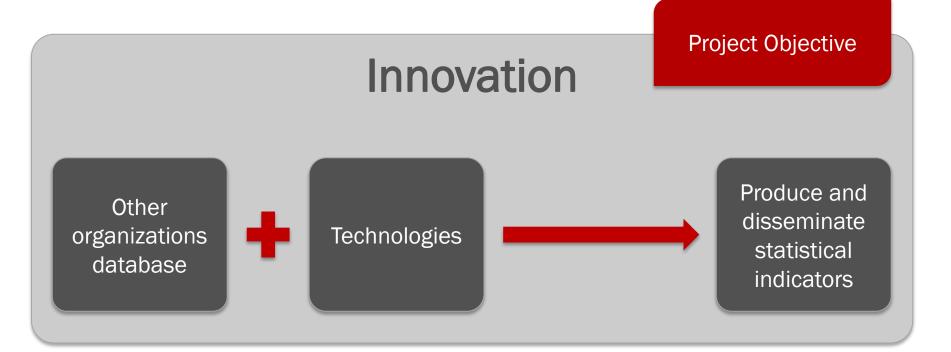




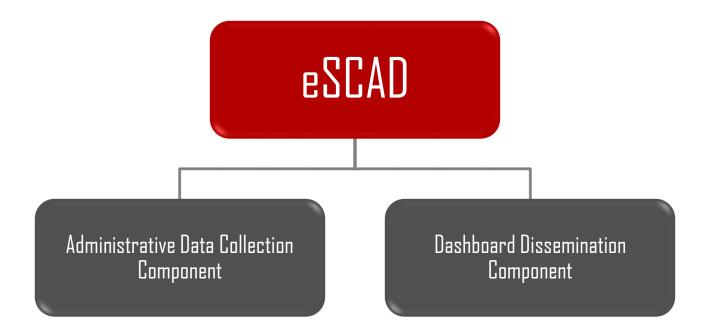
Other organizations database







eSCAD Project Scope



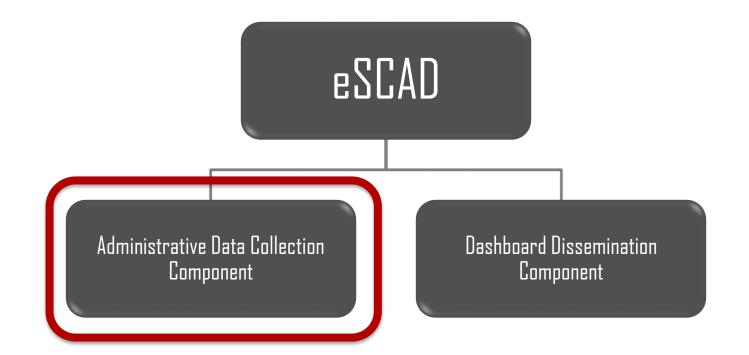
Needs Analysis and Project Goals

Internal Stakeholders:

- Create a single, comprehensive, easily accessible statistical database
- Automate the downloading of data as well as all the related procedures and processes, in order to produce a broader range of indicators at a faster frequency and lower cost
- Provide regular time series for all statistics

External Stakeholders:

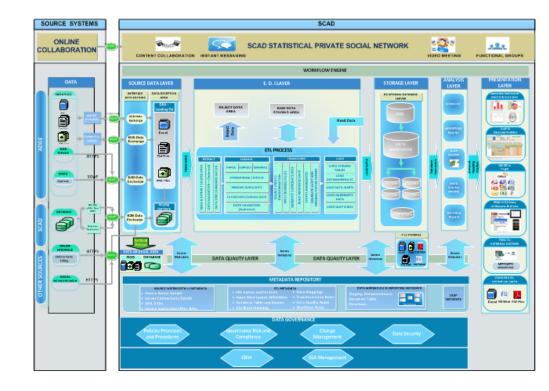
- Eliminate inconsistencies in the figures issued by government agencies
- Adopt international best practices in the compilation of statistical indicators
- Apply best computing methods in the integration editing, processing, analysis, dissemination and protection of data
- Enable other government entities to load data directly into SCAD's database
- Facilitate access to information provided by SCAD

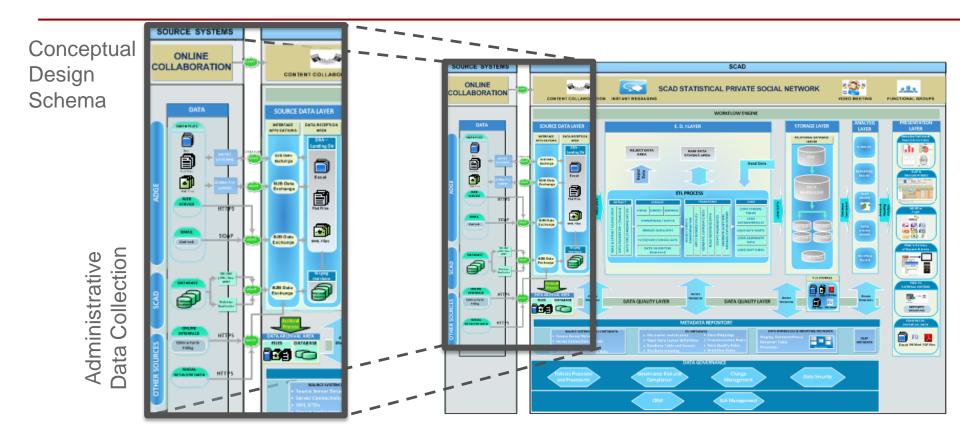


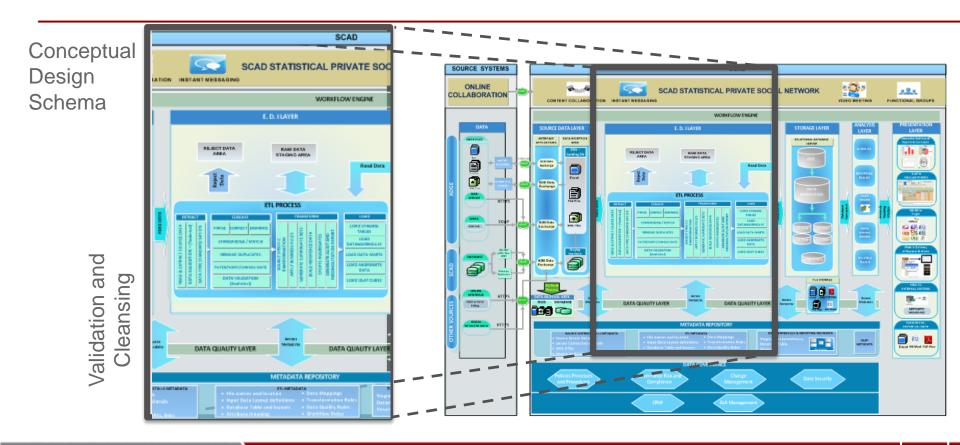
Conceptual Design

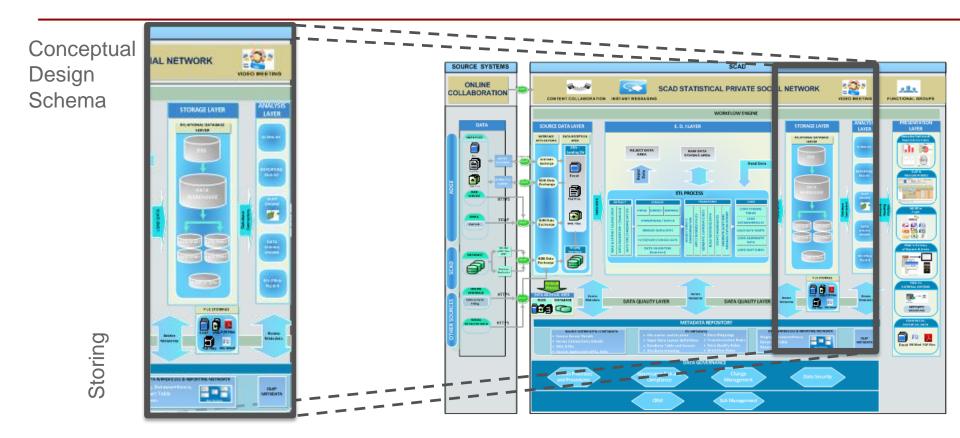
- Oracle as the database
- automated methods in the extraction, transfer and loading of administrative records
- service-oriented engineering to control the life-cycle management
- data quality engines
- analytical engines to extract and store indicators in the main data warehouse

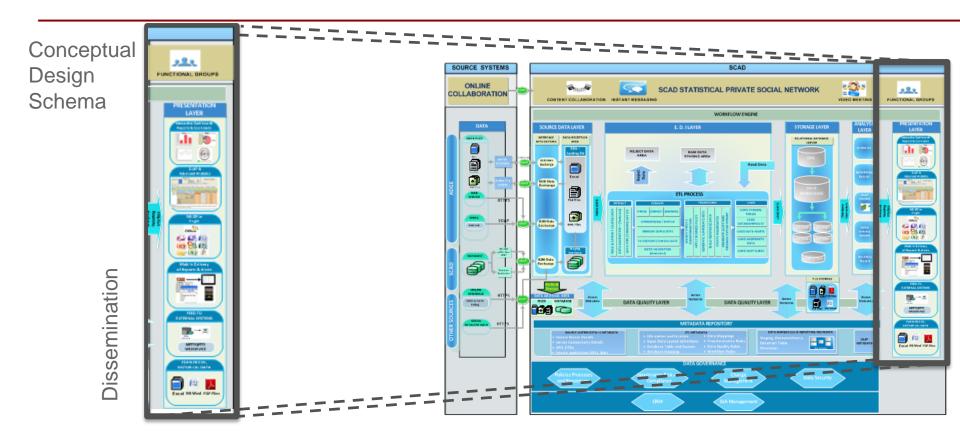
Conceptual Design Schema

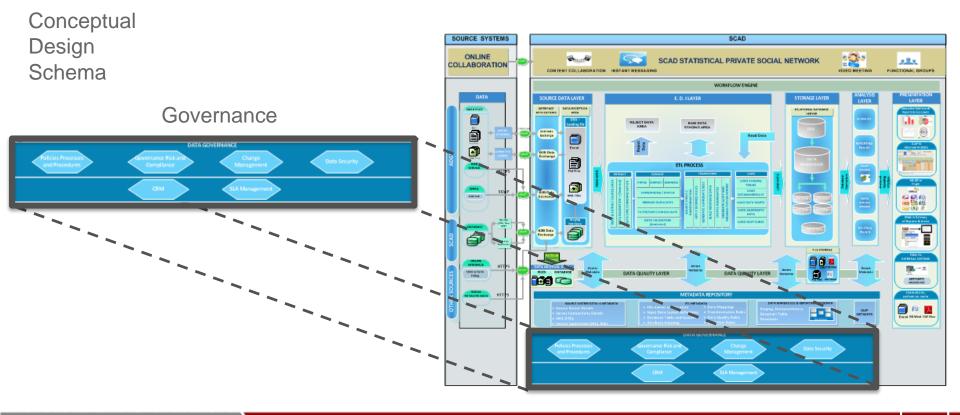










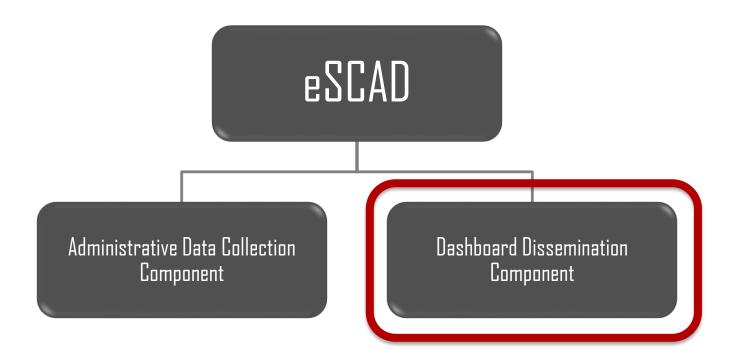


Operation

- Secure network (B2B)
- Provide data structure rules for government agencies prior the uploading process
- Automatic validation and quality checking of uploaded data
- Automatic statistical calculation process for some data
- Storage in the data warehouse

Outcomes

- Timeliness of data flow
- Coverage of the administrative data used in the compilation of statistics
- Consistency of statistical data with standard international definitions and classifications
- Regular updates of administrative data
- Measurement of data quality
- Ability to identify data gaps in administrative records



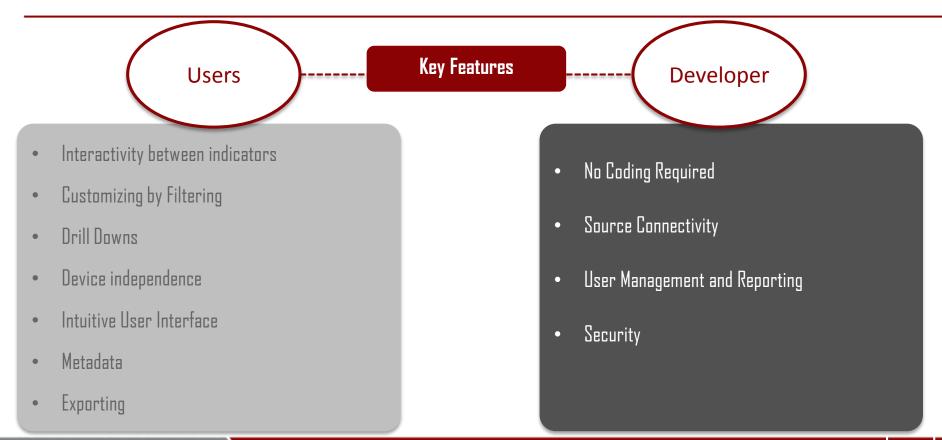
- Statistical dashboard is a data visualization tool
- provides an 'at-a-glance' view of many related statistical indicators
- The dashboard supports the presentation of complex data, but in an easily consumable way.

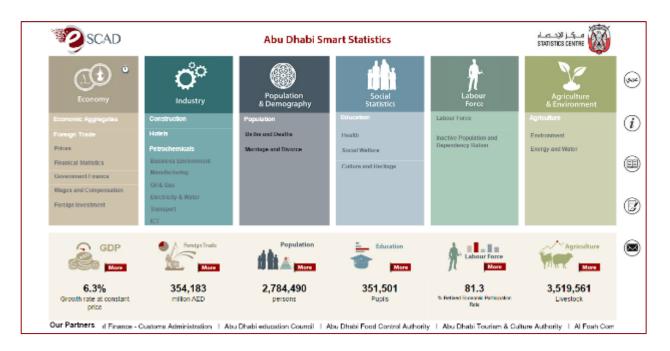
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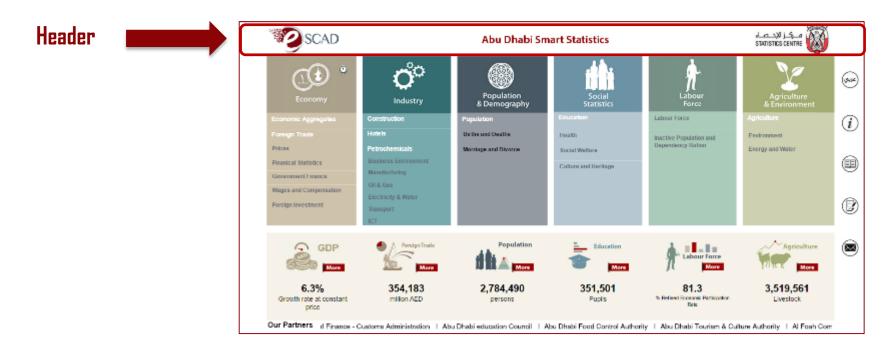
Innovation

The use of standard dashboards for the

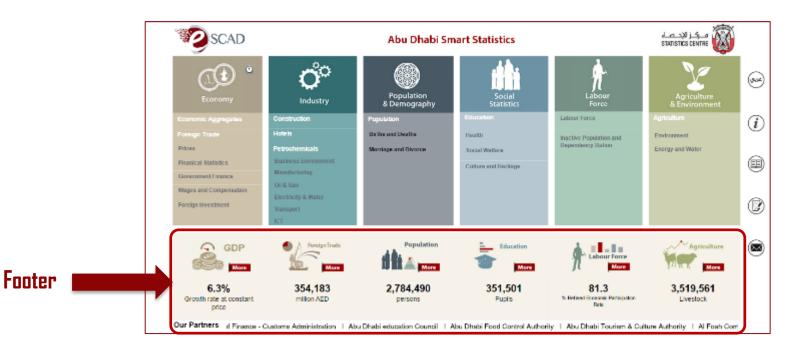
official statistics

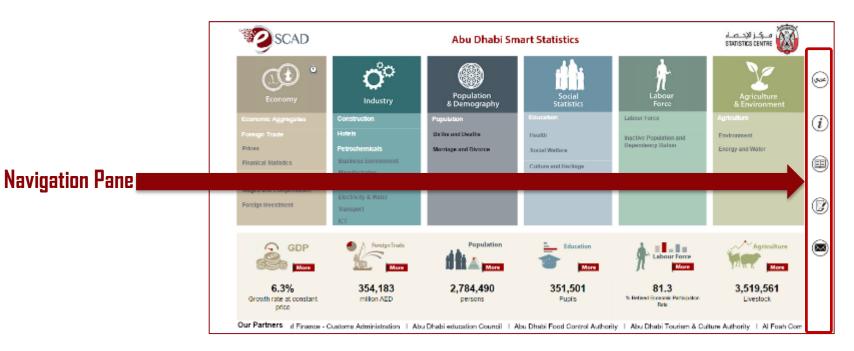




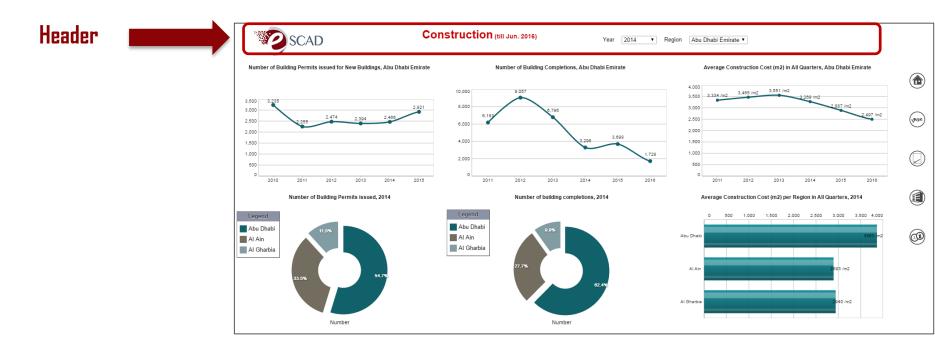








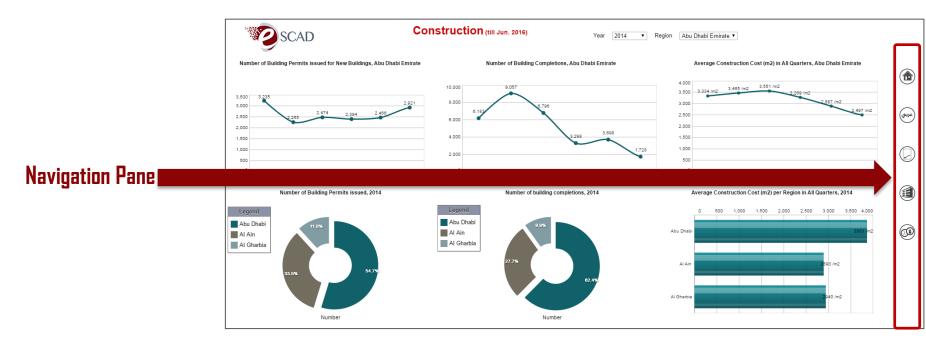
Dashboard Layout – Dashboard Page



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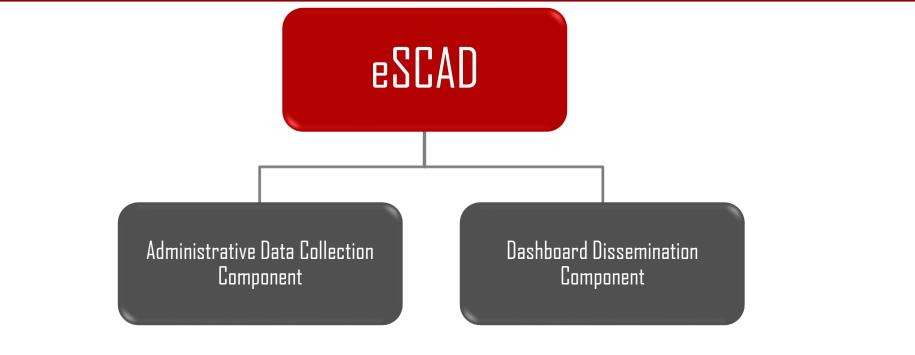
Demo



Lessons Learned

- Consider Visual Perception
- The Importance of Analysis
- Best Chart for the Job
- The Importance of colours
- Stand Alone Charts

eSCAD Project Key Results



• Deployed to 56 agencies

- 3,980 Public users sessions
- 326 Government users

رؤيتنا: الريادة والابتكار في الإحصاء Our Vision: Leadership and Innovation in Statistics

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