New Ways of Collecting Price Data in Oman

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Contents

- Introduction
- Time Scale utilizing New Technology
- New Ways of Data Collection
- SWOT Analysis
- Conclusion
Introduction

- The National Centre for Statistics and Information (NCSI) is the National Statistical Office in Oman.
- NCSI compiles and publishes currently the consumer price index on a monthly basis and covers the ranges of goods and services.
- The current base year for the CPI is 2012. The index covers the whole country.
- The collection of price data in Oman started in 1972.
- Selected goods and Services in Muscat Region Only.
- 1990 Modern Technology has been used.
Time Scale Utilizing Modern Technology

Start collecting price data using hand set devices

The first hand set made by PSION co.
السلطنة تطور مزايا للمنظومة تتصل بتأكيد الجودة وسلامة وامن البيانات وتقنيات الاتصال النقالة

- G.P.S with GIS Rules
- G.S.M (GPRS/EDGE)
- V.P.N
Time Scale Utilizing Modern Technology

• B2B : Online
• B2B : Disconnected
المخطط التصوري للمنظومة

- المخطط التصوري للمنظومة
  -EXISTING BACKEND MODULE – SYNC SERVER
    - Staging DB (Survey tasks)
    - Web Service

- PROPOSED MODULE – NCSI PACKAGE
  - On-demand capturing
  - Web Service
  - Mapping outlets and items
  - Logs & notifications

- CHANNELS
  - GSM
  - Wi-Fi
  - Cable

- PROPOSED ONLINE MODULE – OUTLET PACKAGE
  - Web Service
  - Intermediate DB
  - Items
  - Prices
  - Logs

- EXISTING NCSI FIELD WORK
  - Mobile App
  -Disconnected Mode

- CPI INTEGRATED SYSTEM - NCSI
Organizational Chart for linking

- **Head Quarters**
- **CPI Area / Branches**
  - **Market Branch #1**
  - **Market Branch #2**
- **CPI Outlets (area code)**
  - **CPI Outlet1**
  - **CPI Outlet2**
  - **CPI Outlet3**
  - **CPI Outlet1**
  - **CPI Outlet2**
- **Basket of all Base Years**
  - **Outlet Items**
- **Barcode(s) by common code**
  - **Barcode Lists**
The Organizational chart of Price collection

Sync to get Tasks from Staging -> List ready tasks -> Select Task & determine Survey Date

- Get Price (Direct Link)
- Get Price (Excel File)
- Auto Validations
- Prices Screening
- Save & Sync

- Explore online Prices from Market
- Download Price table for desired date
- Explore Errors log
- Send Notifications (SMS, Email) & Download Log
- Save
NCSI Activates So Far

- Main Data Sources are determined
- Official Letters sent to main sources
- Individual lists of items prepared
- Data Sources verifying the lists
- Project: Online data collection system
- Clarification Meeting for sources initiated
- First data received to test the system
- Enumerators adjusting the data
- Agreement with all sources in Muscat
- Ongoing extension on further sources
SWOT Analysis

- **Strengths**
  - The new method of data collection will allow NCSI to reduce the field enumerators by 25% during 2106 and by 75% during 2017,
  - the CPI will be produced 2 days after the end of the month and
  - Data-Collection errors (wrong item, data-entry errors) will be non-existent for eliminating the work-process of data-collection.
  - Increased volumes of data at limited direct cost
SWOT Analysis

- **Weaknesses**
- Not all the data sources are using modern technology (internet, barcode, etc.,..)
- For data security reasons many sources hesitate to shift to the new way of data collection.
- Many sources want NCSI to cover the cost in adopting the way of data collection
- In several cases, we found that the databases for outlet are outside the Sultanate and the approval for adopting the new method takes longer time.
SWOT Analysis

- **Opportunities**
  - Price Data from Ministries of Agriculture & Fisheries and the Public Authority of Consumer Protection may be used instead of collecting it in the field
  - NCSI has good opportunities to transfer some of the field workers to data editors and data analysts
  - If the exercise goes well we can adopt the same method for other type of price indices such as producer price index and import and export price index

- **Threats**
  - If it does not work, it will be difficult to retransfer the data editors to field workers.
  - Other threat is the implications for index Methodology
Conclusion

- The adaptation of any new method in data collection or survey is time consuming.
- It took more than 18 months from the preparation plan until receiving the first set of data from the sources.
- NCSI to make a significant step towards more coherent and accurate data and is constantly time and money consuming.
- When the new method is implemented, we expect that the Center is producing the CPI by content and process on a clearly accepted international standard, where further developments should focus on the development of our basket for goods and services.
Thank you