Innovation in communication of official statistics

International Monetary Fund
Saurabh Gupta
May 23-25, 2011
Background

• The PGI website provides
  • Cross-country data for the G-20 + 5 FSB-Non-G20 economies
  • Data presented in comparable units of measure
  • Access through on-line database with historical data
Background
Principal Global Indicators (PGI) data set is created to “facilitate the monitoring of economic and financial developments” of the G-20
Background

PGI web site

Website of the Inter-Agency Group on Economic and Financial Statistics

The PGI website presents data for the Group of 20 (G-20) to facilitate the monitoring of economic and financial developments for these systematically important economies. Launched in response to the on-going financial and economic crisis, it is hosted by the IMF, and is a joint undertaking of the Inter-Agency Group on Economic and Financial Statistics: Bank for International Settlements (BIS), European Central Bank (ECB), Eurostat, the International Monetary Fund (IMF), the Organisation for Economic Co-operation and Development (OECD), the United Nations (UN), and the World Bank (WB).
Principal Global Indicators (PGI) data set is created to “facilitate the monitoring of economic and financial developments” of the G-20.

Website is enhanced to include map visualizations of key indicators - utilizes a RESTful SDMX web service to share data.
Background

Principal Global Indicators
Product of the Inter-Agency Group on Economic & Financial Statistics

PGI Data Explorer is now available on iTunes for the iPad, iPhone and iPod Touch! Learn more about the app.

IMF Data Mapper

Dataset: PRINCIPAL GLOBAL INDICATORS | Subject: Real GDP (Annual)

% Change over Previous Period; Sums: Adj.
- 5% or more
- 2.5% - 5%
- 1% - 2.5%
- less than 1%
- 0% - 1%
- no data

Real Gross Domestic Product is the most commonly used measure of a country’s overall economic activity. It represents the total value of constant prices of final goods and services produced within a country during a specified time period, such as one year. Data are seasonally adjusted.

Add a country, region or group to the chart

- United States: 2.9
- France: 1.6
- Canada: 3.1
Background

Usage statistics

Over 300 visits per day, 7 days a week

10,032 visits came from 143 countries/territories

<table>
<thead>
<tr>
<th>Visits</th>
<th>Pages/Visit</th>
<th>Avg. Time on Site</th>
<th>% New Visits</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,032</td>
<td>1.18</td>
<td>00:09:29</td>
<td>69.33%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country/Territory</th>
<th>Visits</th>
<th>Pages/Visit</th>
<th>Avg. Time on Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>1,658</td>
<td>1.19</td>
<td>00:10:14</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>278</td>
<td>1.19</td>
<td>00:08:06</td>
</tr>
<tr>
<td>Germany</td>
<td>482</td>
<td>1.16</td>
<td>00:04:25</td>
</tr>
<tr>
<td>Spain</td>
<td>470</td>
<td>1.23</td>
<td>00:07:06</td>
</tr>
<tr>
<td>China</td>
<td>444</td>
<td>1.16</td>
<td>00:17:06</td>
</tr>
<tr>
<td>Italy</td>
<td>401</td>
<td>1.22</td>
<td>00:07:46</td>
</tr>
<tr>
<td>France</td>
<td>390</td>
<td>1.15</td>
<td>00:06:37</td>
</tr>
<tr>
<td>India</td>
<td>383</td>
<td>1.14</td>
<td>00:14:33</td>
</tr>
<tr>
<td>Brazil</td>
<td>320</td>
<td>1.20</td>
<td>00:08:11</td>
</tr>
<tr>
<td>Russia</td>
<td>276</td>
<td>1.21</td>
<td>00:06:57</td>
</tr>
</tbody>
</table>
Principal Global Indicators (PGI) data set is created to “facilitate the monitoring of economic and financial developments” of the G-20

Website is enhanced to include map visualizations of key indicators - utilizes a RESTful SDMX web service to share data

IMF Statistics department sponsors a mobile application based on the PGI dataset
PGI Mobile: Approach & Design

- Utilize existing infrastructure as much as possible
- Limit maintenance
- Make it easy to add new indicators, data sources and datasets
How it works

Service enables changes to the dataset to seamlessly flow to all effected products.

PGI Dataset contains all data relevant to each of the PGI products.

SDMX acts as gateway to access data in PGI, regardless of format.

SDMX Service

PGI Dataset

PGI Tables

PGI DataMapper
How it works

Service enables changes to the dataset to seamlessly flow to all effected products.

SDMX acts as gateway to access data in PGI, regardless of format.

PGI Dataset contains all data relevant to each of the PGI products.

PGI Mobile

PGI DataMapper

SDMX Service

PGI Tables

PGI Dataset

PGI Tables

PGI Dataset contains all data relevant to each of the PGI products.
PGI Mobile: End Result

- Users get up-to-date data as it becomes available
- Rendering of the data into tables, charts & graphs occurs on the client device
- Mobile application retrieves data using the SDMX web service
SDMX Benefits

1. Faster Time to Market
2. Places Business before Technology
3. Lower Cost, More Value
Faster Time to Market

• Allows the inter-agency group to more quickly adapt to market demands
• “Disseminate once, use everywhere”
• No need to coordinate the release of data per application, focus only on the dataset
Business before Technology

- Shift of focus from technical needs to functional requirements
- Easy to scale-up—additional series do not require changes to existing architecture
Lower Cost, More Value

• Decreases development time & costs
• Maintenance is simplified – changes to the structure of the dataset only affects service, not applications using the service
• Additional data sources using SDMX standards can be easily added to the applications
Way Forward for PGI

• Improving the data coverage and timeliness of the PGI

• Increase the access to PGI data by promoting the adoption of SDMX for the dissemination of official statistics
Next Steps for SDMX

• Data collection using SDMX
• SDMX Registry
• Data Structure Definitions
PGI DATA EXPLORER

The PGI Data Explorer presents data for the Group of 20 (G-20) to facilitate the monitoring of economic and financial developments for these systemically important economies. Launched in response to the ongoing financial and economic crisis, it is supported by the IMF and is a joint undertaking of the Inter-Agency Group on Economic and Financial Statistics: Bank for International Settlements (BIS), European Central Bank (ECB), Eurostat, the International Monetary Fund (IMF), the Organisation for Economic Co-operation and Development (OECD), the United Nations (UN), and the World Bank (WB).

» Data Query

» Favorites

PGI Mobile
iPad, iPhone
WebService for PGI

Dot Stat Datawarehouse Ext Gate

SDMX Web Service - User Query Test Interface

<?xml version="1.0" encoding="UTF-8"?>
<message:QueryMessage xmlns="http://www.SDMX.org/resources/SDMXXML/schemas/v2_0/query"
 xmlns:message="http://www.SDMX.org/resources/SDMXXML/schemas/v2_0/message"
 xmlns:qi="http://www.w3.org/2001/XMLSchema-instance">
 <message:Header>
  <message:ID>none</message:ID>
  <message:Test>False</message:Test>
  <message:Sender id="IMF"/>
 </message:Header>
 <message:Query>
  <qi:KeyFamilyWhere>
    <And>
    </And>
  </qi:KeyFamilyWhere>
 </message:Query>
</message:QueryMessage>