



Evolution of the .Stat architecture using CSPA

Inclusive data ecosystem

Data by theme Popular queries

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- General Statistics
 - Country statistical profiles
 - Key Short-Term Economic Indicators
 - Key Short-Term Economic Indicators
 - Industrial Production
 - Composite Leading Indicator
 - Harmonised Unemployment Rate
 - Consumer Prices - Annual inflation
 - Long-term interest rates
 - Imports
 - Exports
 - Private Consumption (volume)
 - Current Account % of GDP
 - Revisions Analysis Dataset – Infra-annual Indicators
 - Factbook 2014
 - OECD Factbook 2015/2016
- Agriculture and Fisheries
- Demography and Population
- Development
- Economic Projections
- Education and Training
- Environment
- Finance
- Globalisation

Key Short-Term Economic Indicators

Customise Export Draw chart My Queries

Subject: Industrial production, s.a.

Measure: Growth previous period

Frequency: Annual Quarterly

Time: 2015 2016 2015 2016 Q4-2015 Q1-2016 Q2-2016 Q3-2016 Q4-2016 Q1-2017 Jan-2017

Country	Unit	2015	2016	2015	2016	Q4-2015	Q1-2016	Q2-2016	Q3-2016	Q4-2016	Q1-2017	Jan-2017
Australia	Percentage	1.2	1.0	-0.4	1.8	-1.2	-0.9	0.9	0.4	..	..	..
Austria	Percentage	2.1	2.0	0.2	1.4	-0.9	0.6	1.7	0.8	-0.7	..	..
Belgium	Percentage	0.0	4.2	1.3	2.8	-1.2	1.7	1.0	-0.1	-4.5	..	..
Canada	Percentage	-0.7	0.4	-0.6	0.4	-2.0	3.3	0.3	1.3	1.2	..	..
Chile	Percentage	0.2	-0.8	0.3	0.6	-2.1	1.3	-1.3	-1.3	-2.3	..	..
Czech Republic	Percentage	0.0	0.4	-0.4	1.3	0.4	0.1	-0.1	1.3	3.7	..	..
Denmark	Percentage	1.2	3.5	-2.8	4.2	0.9	-1.1	5.5	-1.7	-4.3	..	..
Estonia	Percentage	0.3	2.4	-1.4	0.2	1.1	3.0	3.2	2.8	0.8	..	..
Finland	Percentage	-1.0	2.5	0.2	0.2	1.8	0.1	0.7	-0.4	0.1	..	..
France	Percentage	2.0	0.4	0.4	-0.6	-0.1	-0.2	1.2	-0.3	0.2	..	..
Germany	Percentage	0.4	1.3	-0.2	1.6	-0.5	0.0	0.3	1.3	1.8	..	..
Greece	Percentage	1.0	2.6	2.1	-2.0	1.5	0.7	3.5	3.2	2.4	..	..
Hungary	Percentage	7.1	0.8	1.2	-2.5	3.3	-1.9	1.6	3.2	0.2	..	..
Iceland	Percentage	(E) 9.4	(E) 9.0	(E) 0.9	(E) 4.7	(E) 2.0	(E) 5.5	(E) 6.5	..	(E) 2.0	..	..

Legend:
E Estimated value

Data extracted on 03 Jul 2017 05:07 UTC (GMT) from OECD.Stat

Information

Key Short-Term Economic Indicators

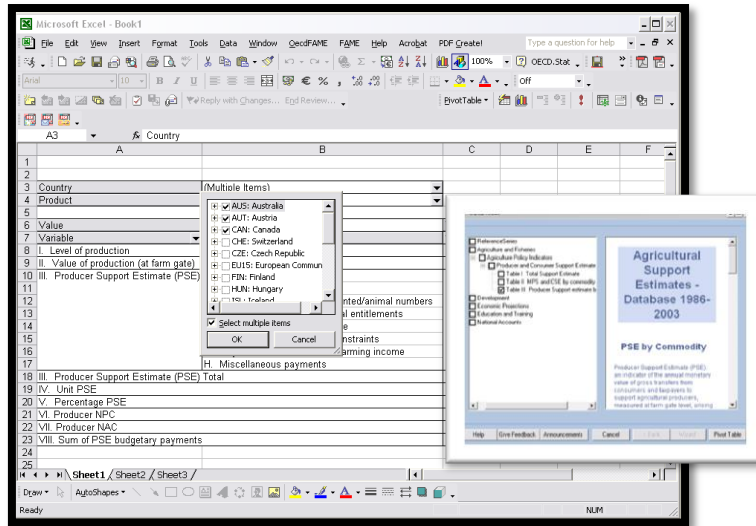
- Source
 - Contact person/organisation: OECD statistics contact: STAT.Contact@oecd.org
- Population & Scope
 - Statistical population: The Key Economic Indicators (KEI) database contains monthly and quarterly statistics (and associated statistical methodological information) for all OECD member countries and for a selection of non-member countries on a wide variety of economic indicators, namely: quarterly national accounts, industrial production, composite leading indicators, business tendency and consumer opinion surveys, retail trade, consumer and producer prices, hourly earnings, employment/unemployment, interest rates, monetary aggregates, exchange rates, international trade and balance of payments.
- Other Aspects
 - Recommended uses and limitations: Indicators have been prepared by national statistical agencies primarily to meet the requirements of users within their own country. In most instances, the indicators are compiled in accordance with international statistical guidelines and recommendations. However, national practices may depart from these guidelines, and these departures may impact on comparability between countries. There is an on-going process of review and revision of the contents of the database in order to maximise the relevance of the database for short-term economic analysis.



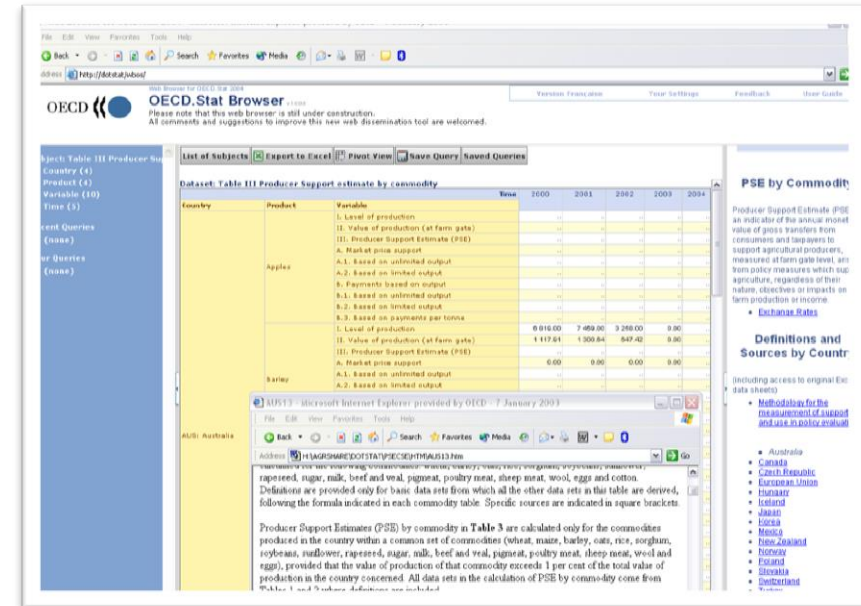
UK Data Service



Main feature: Allow hosting and disseminating flexibly multi-dimensional datasets and their referential metadata



2002-2005: SQL-based DWH with OLAP Cubes accessible internally from within Excel and externally through an OLAP web plug-in



Since 2005: SQL-based DWH with web services accessible through web application, direct SQL interface and Excel

Component Architecture Model

Enforce Full SDMX & CSPA Compliance
Ensure reusability and feasibility

Statistical Information System to provide solutions for statisticians to process the data through steps of the GSBPM

Collect
(incl. Validate)

Process
(incl. Edit & Calculate)

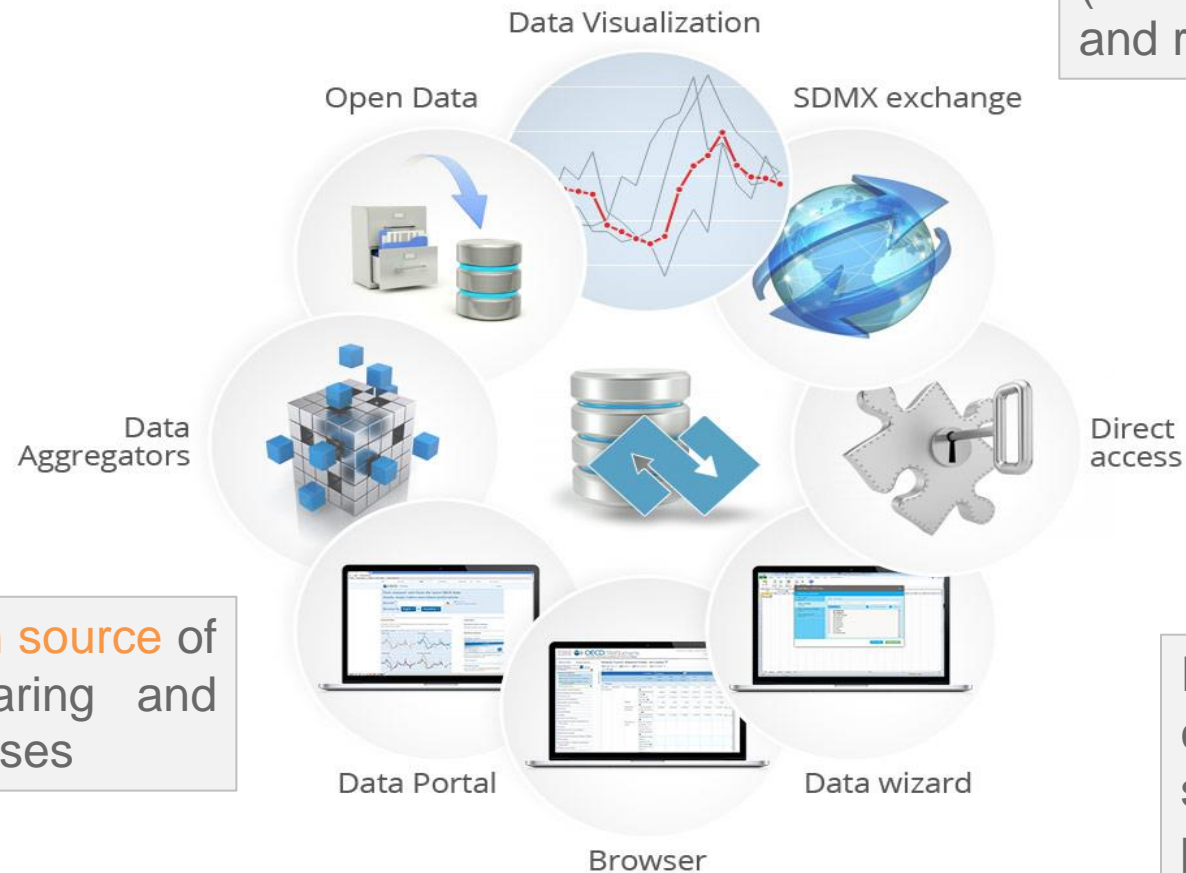
Disseminate

StatWorks/MetaStore
Data Wizard

.Stat
.Graph

Component Architecture Model

Enforce Full SDMX & CSPA Compliance
Ensure reusability and feasibility



The **central repository** ("warehouse") of validated statistics and related metadata

It is the **organisation source** of data for data sharing and dissemination purposes

It is the **central hub** connecting data production, sharing & dissemination processes

Component Architecture Model

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Ensure reusability and feasibility

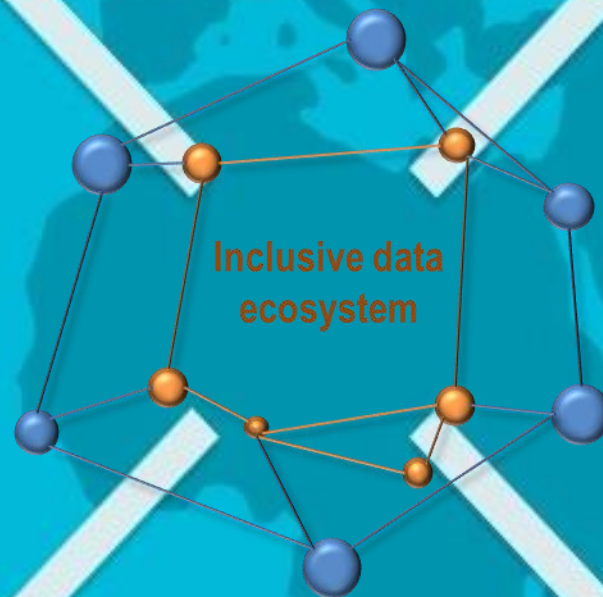


Component Architecture Model

*Enforce Full SDMX & CSPA Compliance
Ensure reusability and feasibility*

Extended Community Support Model

*Ensure long term capacity building
and federation of entities*



Extended Lifecycle Coverage

Design, Collect, Process & Disseminate

Open Source Model

*Ensure long term financial sustainability
and affordability for countries*

Enforce Full SDMX & CSPA Compliance

Ensure reusability and feasibility

Common Statistical Production Architecture
“CSPA”: built by the Statistical Community
for the Statistical Industry

Component Architecture Model

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Reusable
Components *for the*
Web

Component Architecture Model

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Reusability

each (type of) piece can be reused

Encapsulation

no piece can modify another piece

Interoperability

each piece has a standard interface

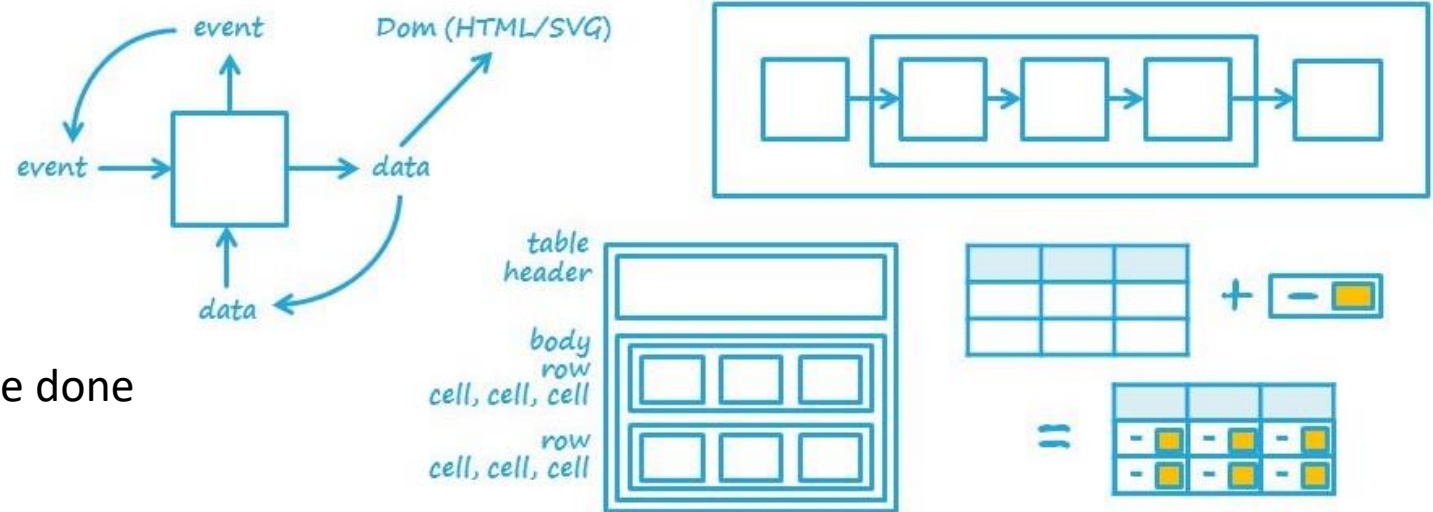
Composition (static)

with simple pieces, more complex pieces can be done

Chaining (dynamic)

with simple pieces, complex workflow can be done

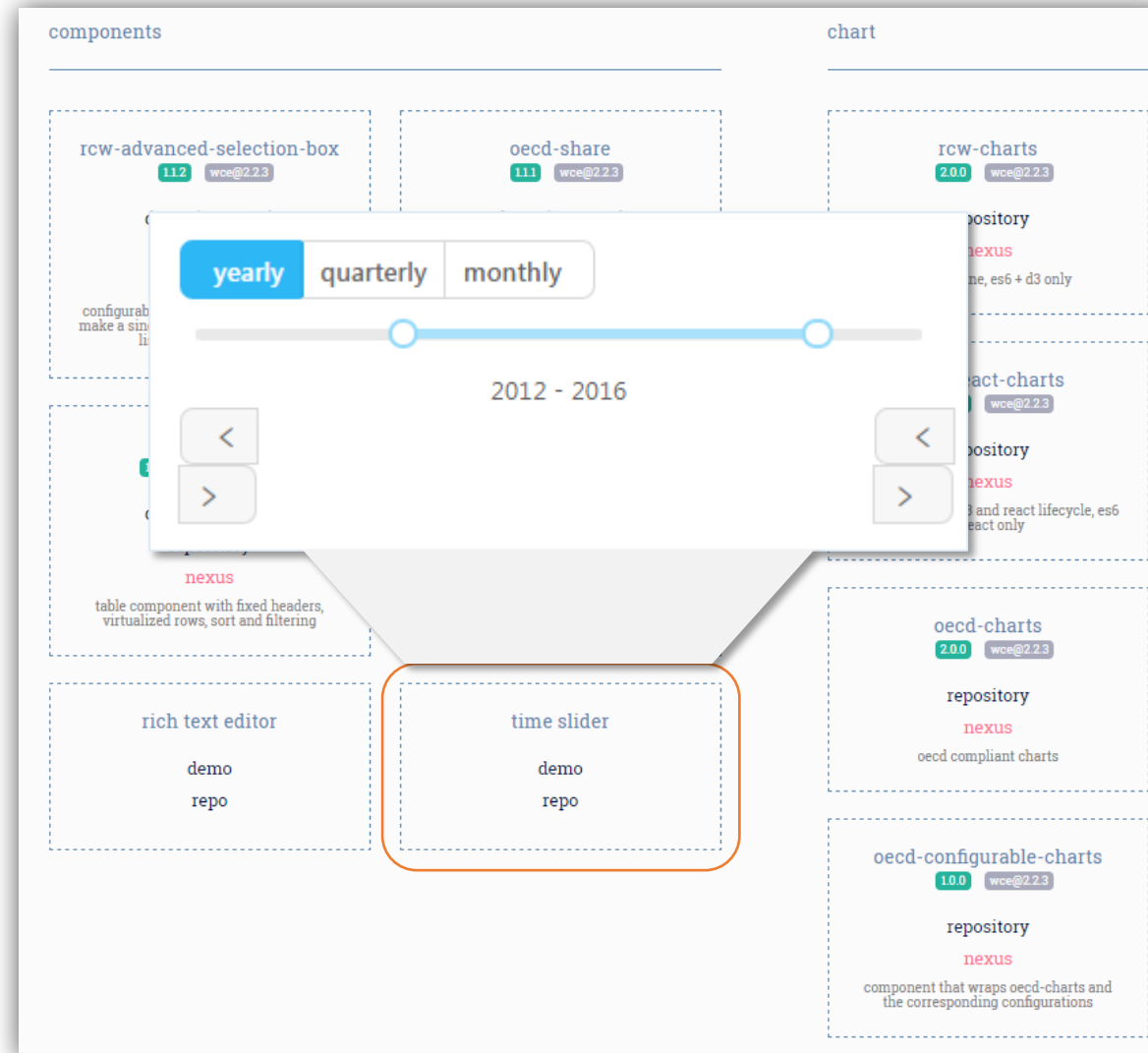
What are Reusable Components for the Web?



Component Architecture Model

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Ensure reusability and feasibility

Reusable
Components for the
Web



Component Architecture Model

Enforce Full SDMX & CSPA Compliance
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Reusable
Components for the
Web

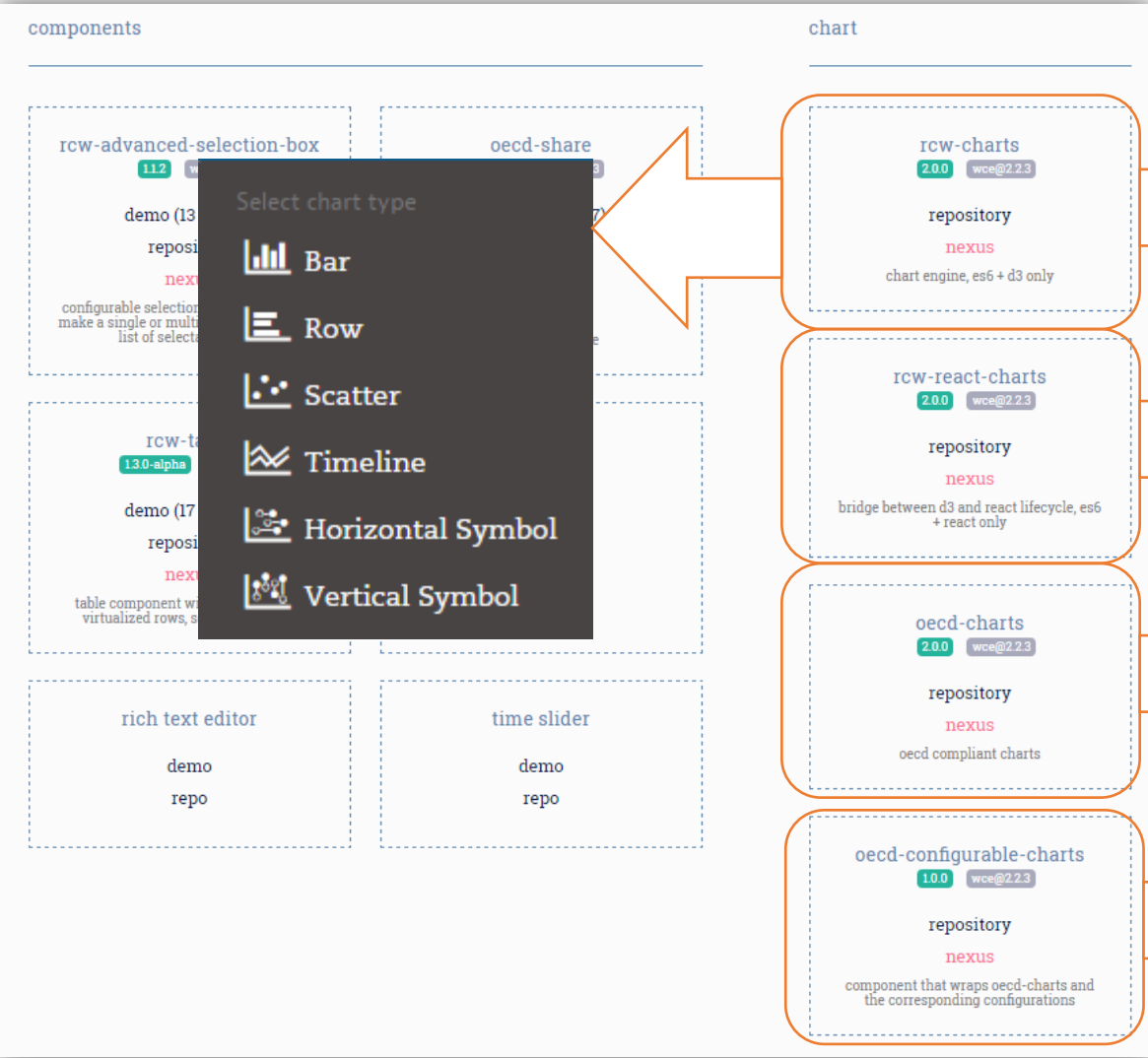


Chart Engine D3.js

React JS layer

Chart styling

Chart configuration

Component Architecture Model

Enforce Full SDMX & CSPA Compliance
Ensure reusability and feasibility

Reusable
Components for the
Web – Chart Generator

The screenshot displays a web application interface for configuring charts. On the left, a bar chart titled "Growth previous period - Annual - 2015" is shown, with a y-axis ranging from -1 to 6. The chart is attributed to "source OECD". On the right, a configuration panel is visible, containing fields for Title, Subtitle, Source label, Width (600), Height (300), Highlights, Baselines, and Axis(y) settings (Minimum, Maximum, Step (period), Pivot). A box labeled "Chart configuration" points to the right-hand side of the interface.

oeed-configurable-charts@3.4.0

oeedData@BarChart

Growth previous period - Annual - 2015

6
5
4
3
2
1
0
-1

source OECD

Title
Growth previous period - Annual - 2015

Subtitle
Recommended number of character is around 80.

Source label
source

Width
↔ 600

Height
↕ 300

Highlights
Select...

Baselines
Select...

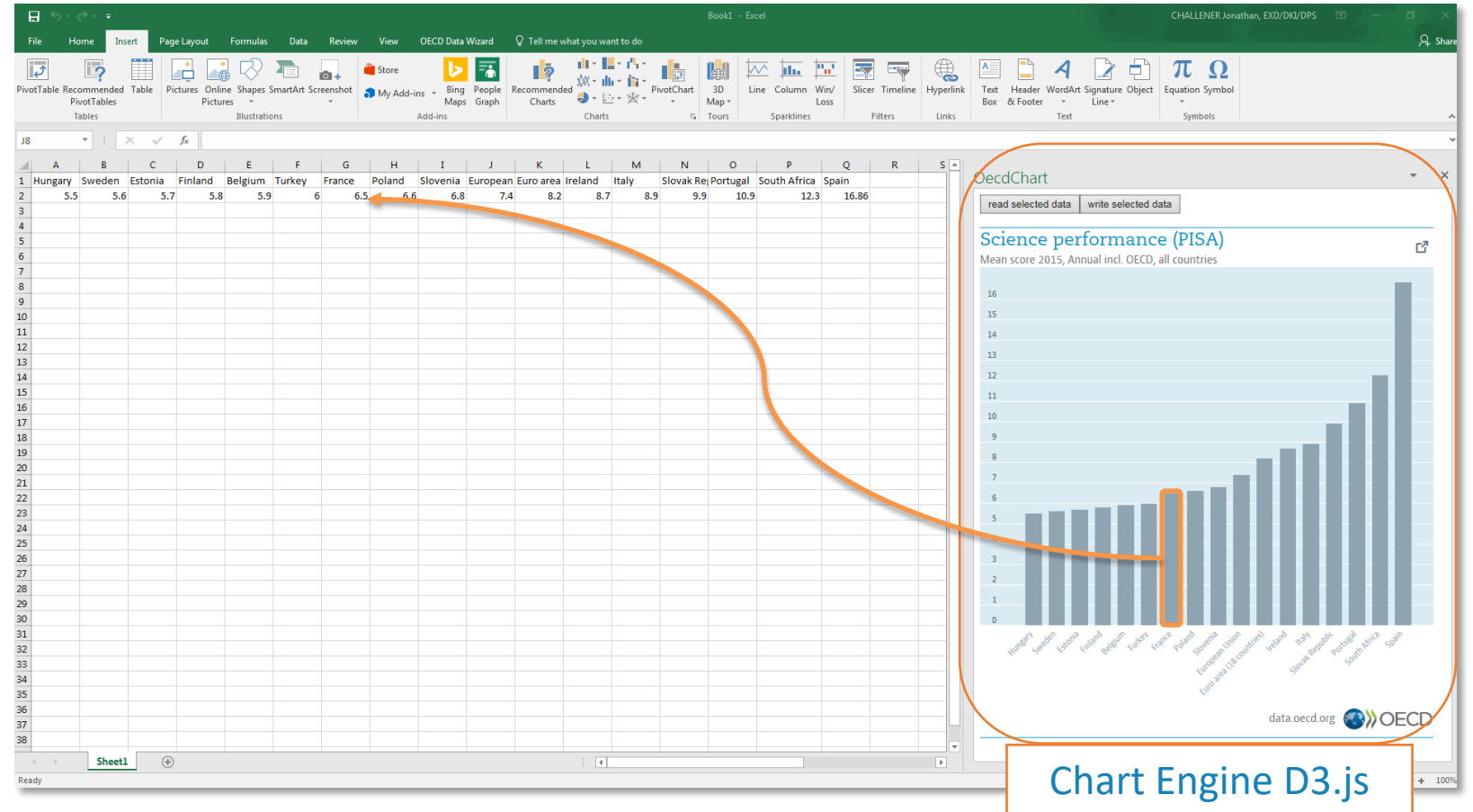
↑ Axis(y)
Minimum
Maximum
Step (period)
Pivot

Chart configuration

Component Architecture Model

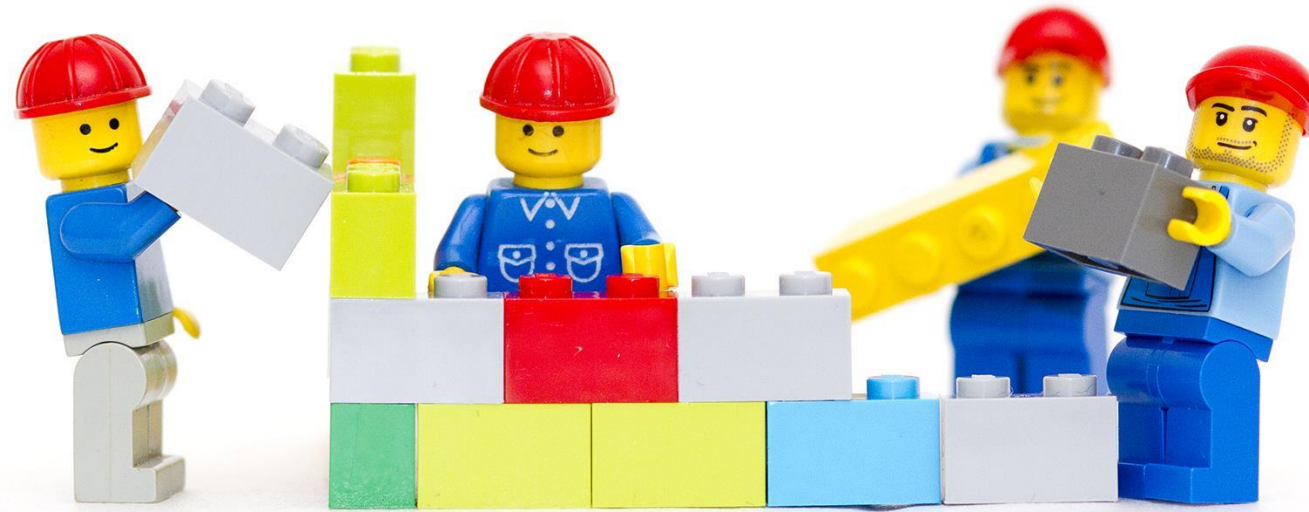
Enforce Full SDMX & CSPA Compliance
Ensure reusability and feasibility

Reusable
Components for the
Web in Excel (PoC)



Component Architecture Model

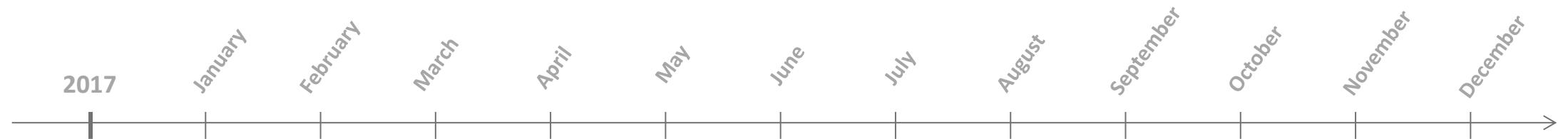
Enforce Full SDMX & CSPA Compliance
Ensure reusability and feasibility



Eased creation of new products and user interfaces

Enforce Full SDMX & CSPA Compliance
Ensure reusability and feasibility

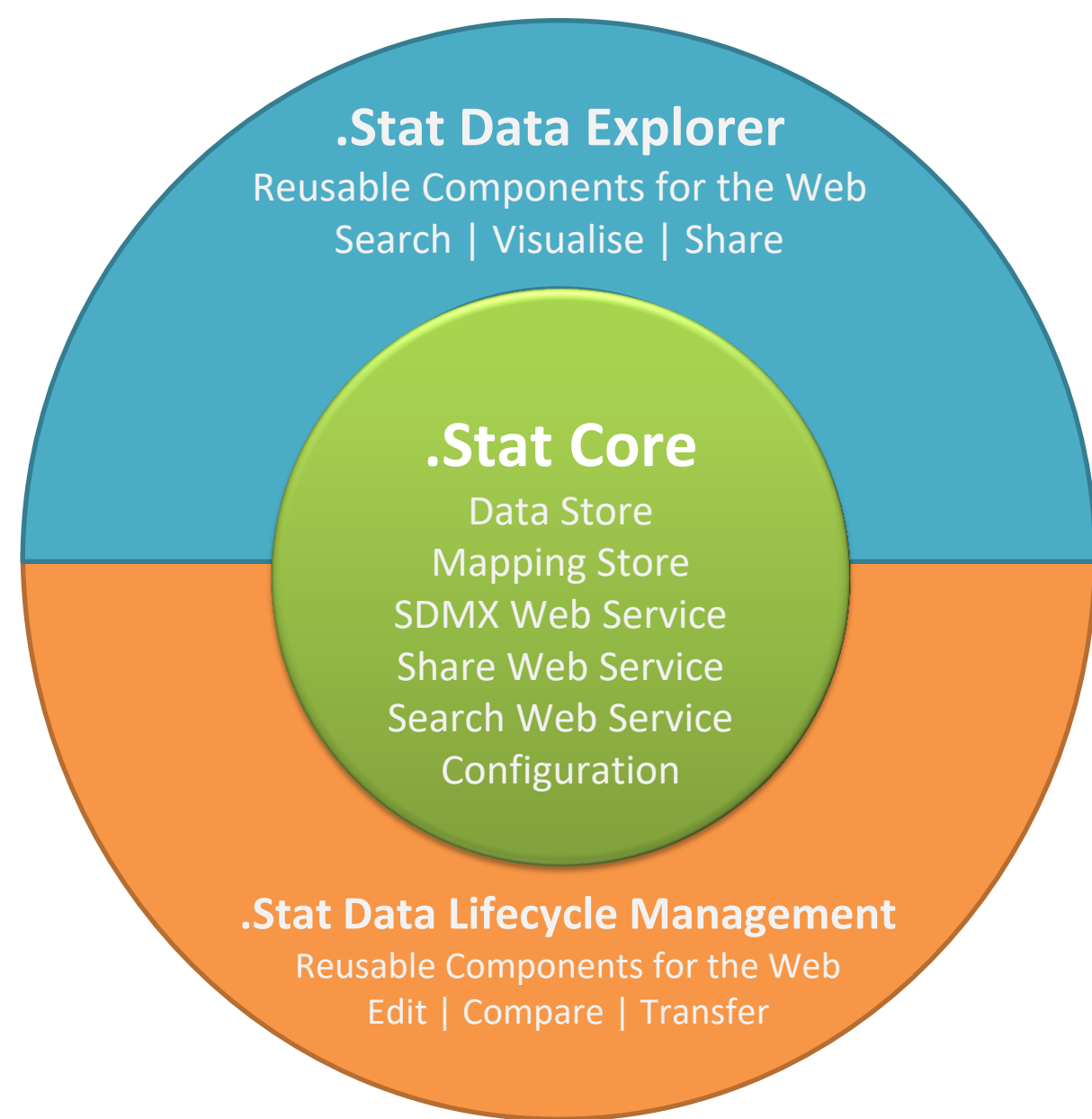
2017-18 delivery plan



The .Stat Suite

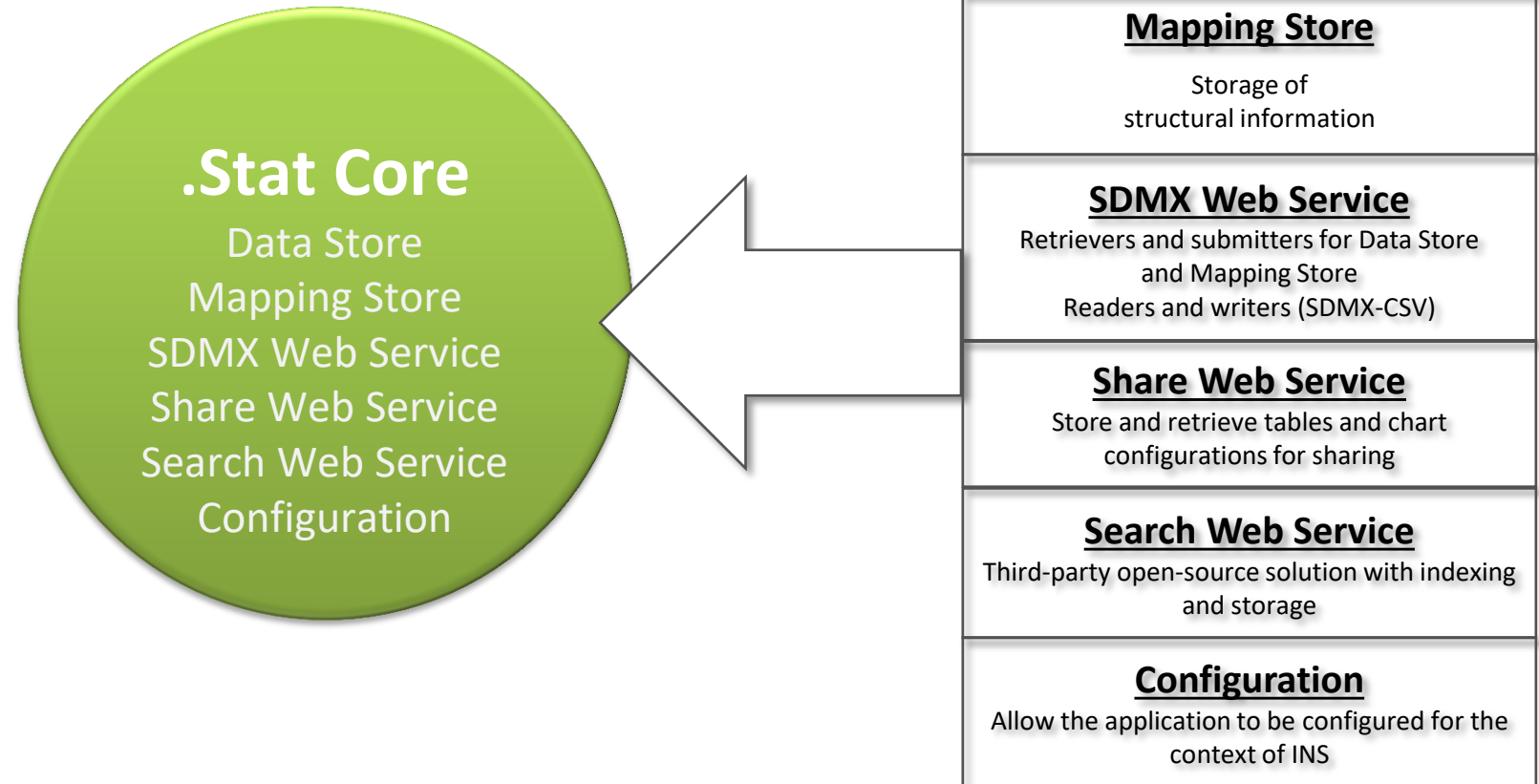
Component Architecture Model

Enforce Full SDMX & CSPA Compliance
Ensure reusability and feasibility



Component Architecture Model

Enforce Full SDMX & CSPA Compliance
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The international standards agenda

Strong contribution by SIS-CC
to the HLG agenda



CSPA

Increase the adoption of
international standards



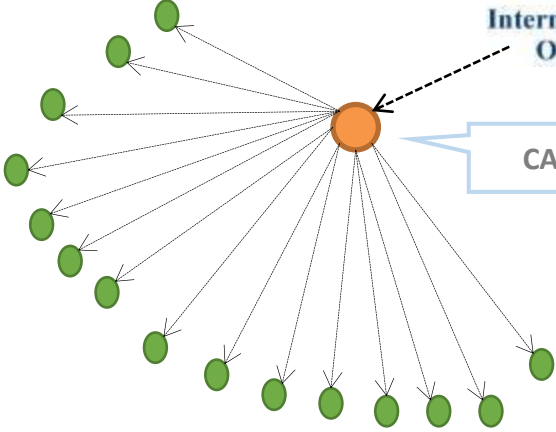
Use Cases

UC1: PROXY MEMBER
ILO project to develop Labour Statistics portal for CARICOM countries.



International Labour Organization

CARICOM



SIS-CC

Statistical Information System
Collaboration Community

UC2: FULL MEMBER
MENA Fund (Deauville partnership) to overhaul Tunisia's INS based on .Stat and SIS-CC support.



إحصائيات تونس
STATISTIQUES TUNISIE





**Evolution of the .Stat
architecture using CSPA**

Inclusive data
ecosystem

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 [SISCC.OECD.ORG](https://siscc.oecd.org)

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