

Now see what *YOU* can do...

An exciting new approach to data presentation

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# Introduction

## ■ Registry data

- ◆ high quality, validated
- ◆ 1997 onwards
- ◆ now all UK centres

## ■ Annual report

- ◆ cross-sectional analysis (predominantly)
- ◆ parameter-based

## ■ "Can we have...."

- ◆ centre-based reports ?
- ◆ longitudinal data ?
- ◆ "What about...?"

**"Un bon croquis vaut mieux  
qu'un long discours"**

**Napoleon Bonaparte**

**"A good sketch is better  
than a long speech"**

**Interactive Maps**  
[www.renalreg.com](http://www.renalreg.com)

# Interactive Maps

- **Registry data** (2003-2008)
  - ◆ RRT incidence & prevalence
  - ◆ acid-base control
  - ◆ bone mineral metabolism
  - ◆ BP control
  - ◆ control of anaemia
  - ◆ haemodialysis adequacy
  - ◆ data completeness
- **Public health data** (courtesy of EMPHO)
  - ◆ circulatory disease mortality
  - ◆ ethnicity
  - ◆ indices of deprivation

# Interactive Data Portal

[www.renalreg.com](http://www.renalreg.com)

# Data Portal

- **Centre-specific reports**
  - ◆ Flash based, PDF
  - ◆ distillation of annual data based around an individual centre
  - ◆ statistically robust
    - ◆ funnel plots
    - ◆ SPC charts
    - ◆ confidence intervals for ranking
- **Longitudinal statistical process control (SPC) charts**
  - ◆ 'special cause variation'
  - ◆ "Shewart's rules"

# Data Portal

- Rosling-style motion charts

- ◆ <http://www.gapminder.org>

- [www.ted.com/talks/hans\\_rosling\\_shows\\_the\\_best\\_stats\\_you\\_ve\\_ever\\_seen.html](http://www.ted.com/talks/hans_rosling_shows_the_best_stats_you_ve_ever_seen.html)

- ◆ available via Google visualisation API

- ◆ up to five parameters displayed simultaneously

- ◆ complex data interplays



# Data Portal

## ■ OLAP pivot chart

- ◆ online analytical processing
- ◆ specifically optimized for reporting
- ◆ rapid execution (0.1% time cf. normal)
  
- ◆ "dimensions"
  - ◆ variables used for aggregation / summarising
  - ◆ heierarchical
  
- ◆ "measures"
  - ◆ variables counted, summarised or aggregated

# Technical

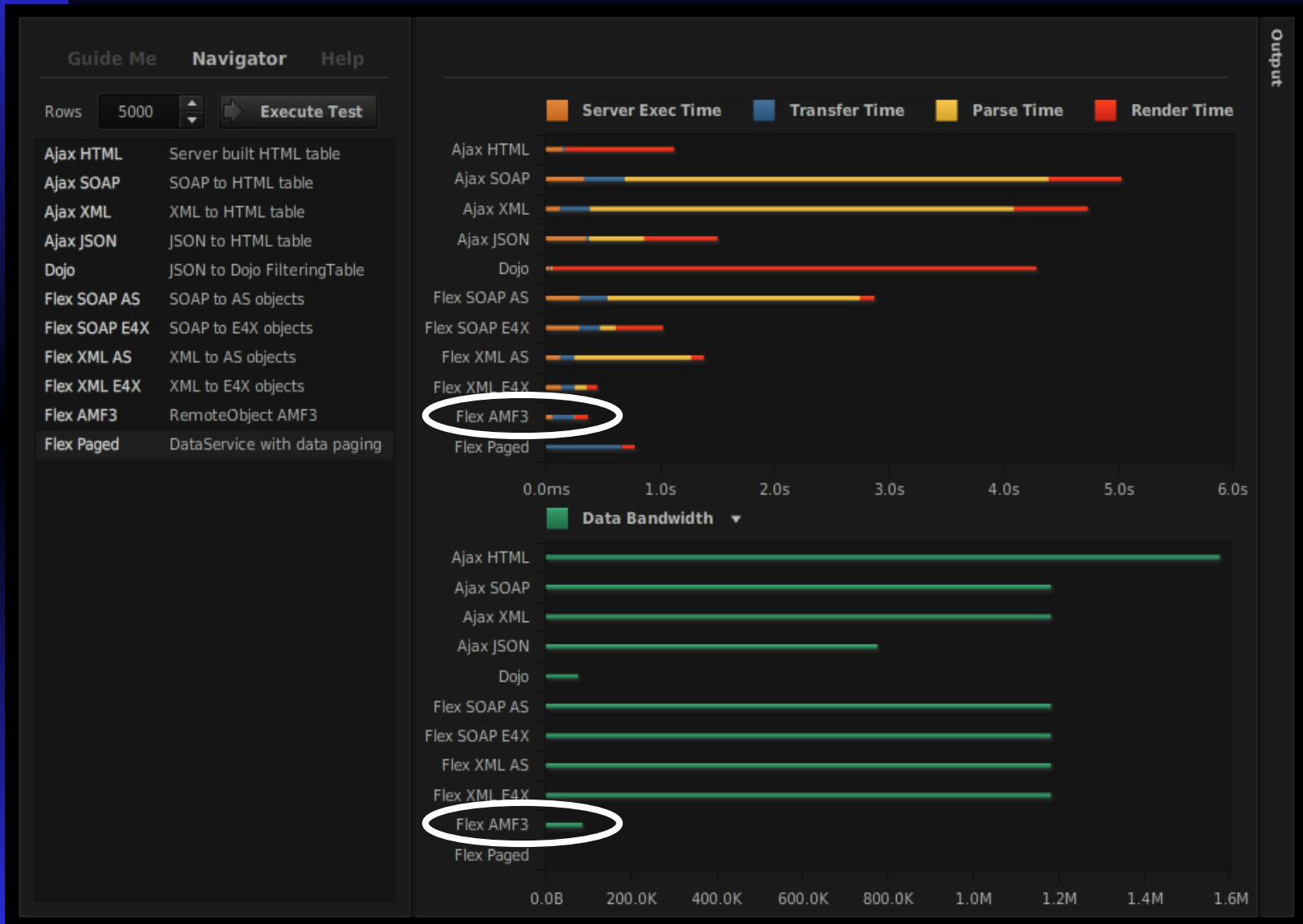
## ■ CSRs

- ◆ Registry data in an Excel template
- ◆ consumed by bespoke VB.net software
- ◆ data inserted into a custom Word template

## ■ Data portal

- ◆ Adobe Flex front end, runs in Flash
- ◆ desktop version available soon (AIR framework)
- ◆ iOS compatible soon
  
- ◆ MySQL database
- ◆ WebORB for PHP middle layer
- ◆ AMF (action message format) for data transfer

# Technical



# Interactive Data Portal

Send us your suggestions please!

