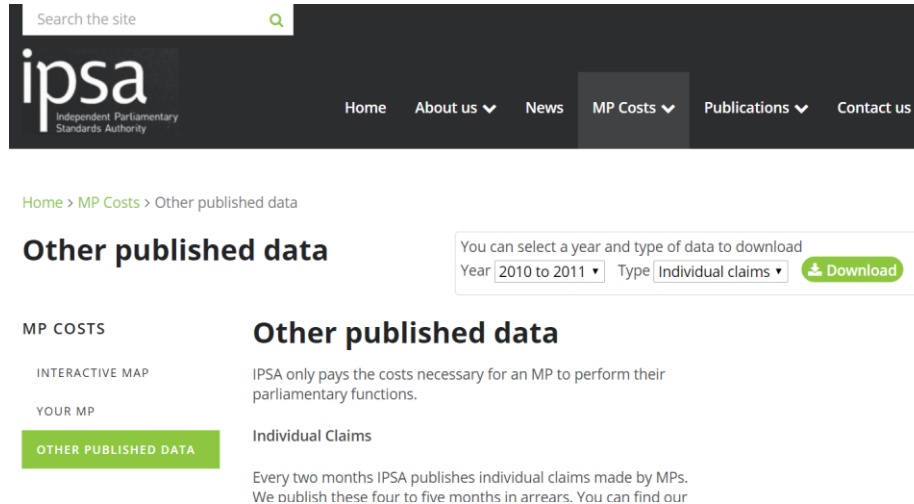


Candidate Practical Data Analytics Demonstration

As discussed we'd like to invite you to showcase your data analytics credentials using the IPSA MPs' Expenses as a data source. The data can be downloaded from this site:

<http://www.theipsa.org.uk/mp-costs/other-published-data/>



The screenshot shows the IPSA (Independent Parliamentary Standards Authority) website. The header includes a search bar and navigation links: Home, About us, News, MP Costs, Publications, and Contact us. The main content area is titled 'Other published data' and features a download section with a dropdown for 'Year' (set to '2010 to 2011') and a dropdown for 'Type' (set to 'Individual claims'), followed by a 'Download' button. A sidebar on the left lists 'MP COSTS' with options: INTERACTIVE MAP, YOUR MP, and OTHER PUBLISHED DATA (which is highlighted). The main text explains that IPSA publishes individual claims made by MPs every two months, with a four to five month lag.

Here you will find data sets from 2010 onwards in the following categories:

- Total Spend
- Individual claims
- Other Data

This is as much a test of your initiative as it is a test of your technical skills. In order to answer the questions below, you may like to refer to other data sources, publicly available on the Internet such as <https://www.theyworkforyou.com/> or https://en.wikipedia.org/wiki/Main_Page

Task

1. Prepare a data visualisation using Power BI that highlights interesting trends and facts you find in the data.
2. Present this data to us in a “business user” friendly manner, but be prepared to answer technical questions about your solution.
3. Answer the following questions in your presentation using your visualisation:
 - a. Which party claims the most?
 - b. How does the geographic spread of constituencies affect what is claimed?
 - c. Which individuals claim the most & do you think this can be justified by the data?

You will be presenting to a range of consultants from different areas of the business so please ensure that the presentation is engaging, concise and clearly answers the questions. Please allow 30 minutes for your presentation.

If you have any issues accessing the data please contact jsmith@hitachi-solutions.com.