

UNIVERSIDAD DE MURCIA

# UNIVERSIDAD DE MURCIA

# SCORECARDS & DASHBOARDS

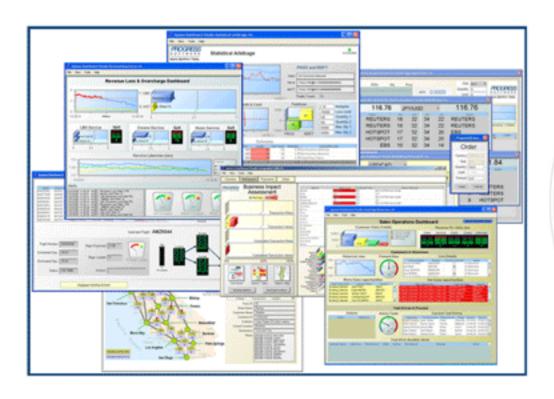
# **OUTLINE**

- DASHBOARDS DESIGN
- 2. PENTAHO CDE



# DASHBOARDS DESIGN (Common mistakes in Dashboards)

# DASHBOARDS



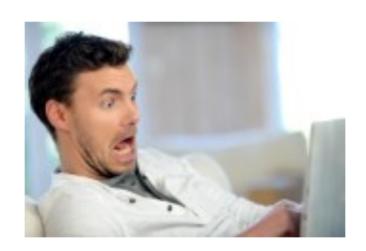


- DASHBOARDS
  - Common Mistakes in Dashboard Design.





- DASHBOARDS
  - Common Mistakes in Dashboard Design.



Exceed boundaries of a single screen.

# DASHBOARDS



# DASHBOARDS

Common Mistakes in Dashboard Design.



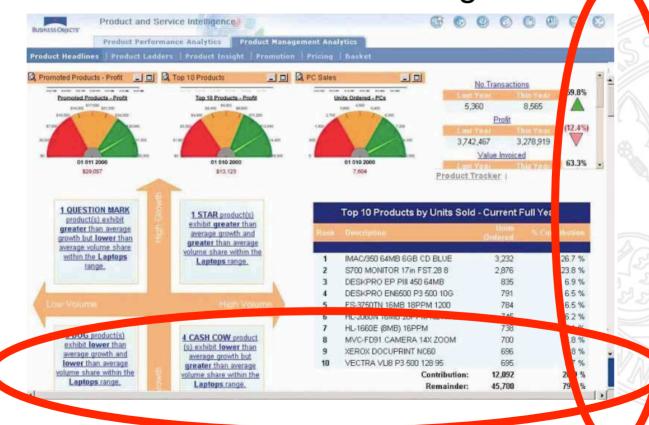
Fragmenting data into separated screens.

# DASHBOARDS



# DASHBOARDS

Common Mistakes in Dashboard Design.



Requiring scrolling.

- DASHBOARDS
  - Common Mistakes in Dashboard Design.

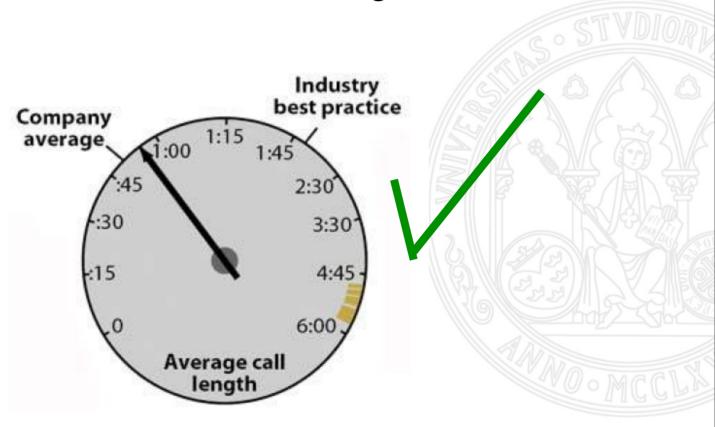


YTD: years-to-date

# DASHBOARDS

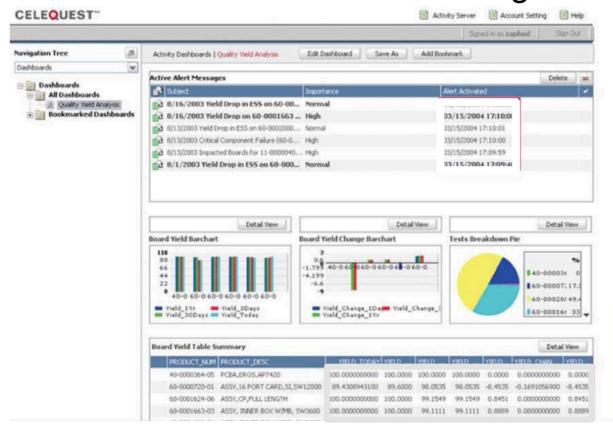
Common Mistakes in Dashboard Design.





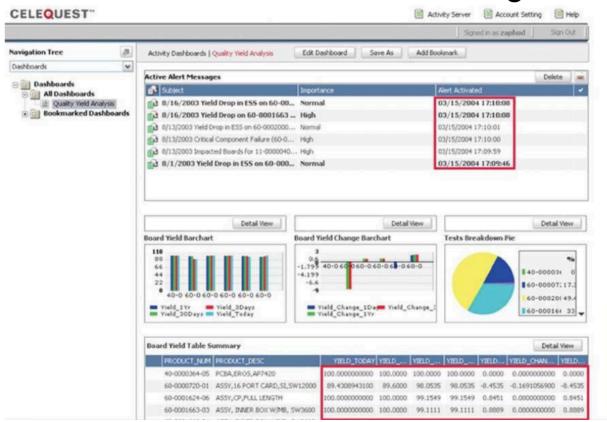
Supply inadequate context for data

# DASHBOARDS



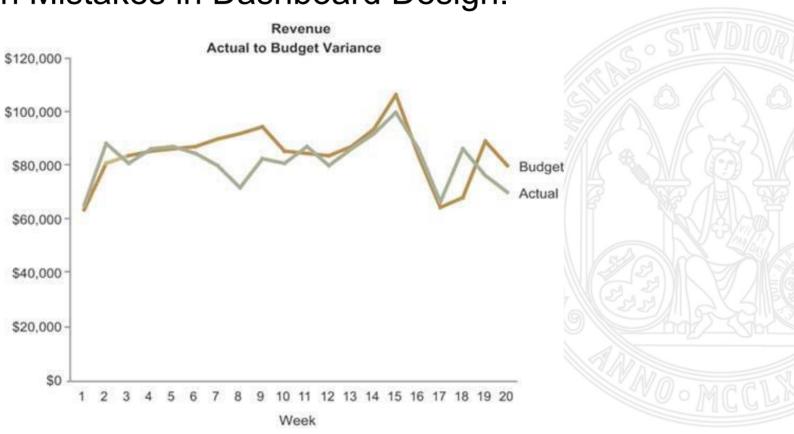


# DASHBOARDS



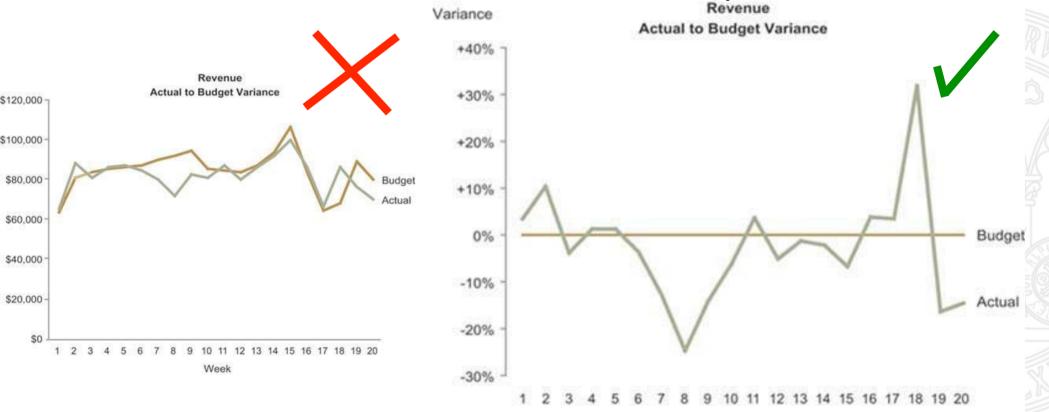


# DASHBOARDS



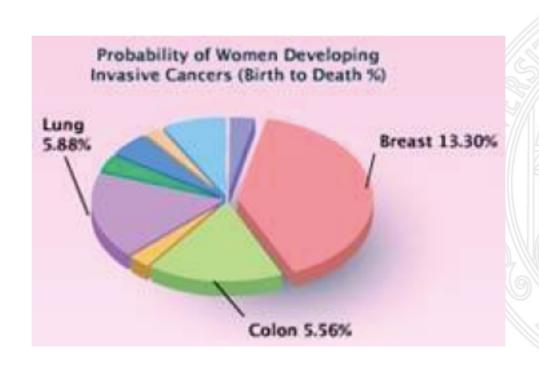
# DASHBOARDS

Common Mistakes in Dashboard Design.



Deficient measure (see BSC)

# DASHBOARDS



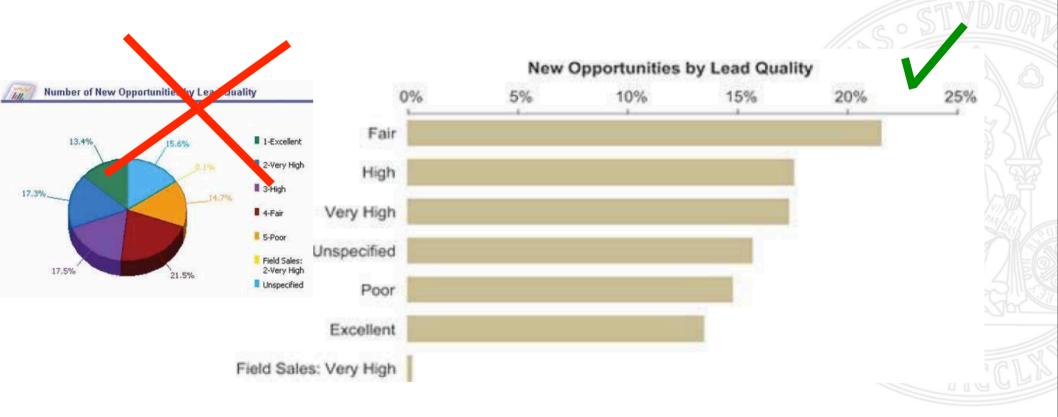
- DASHBOARDS
  - Common Mistakes in Dashboard Design.



Inappropriate Display Media

# DASHBOARDS

Common Mistakes in Dashboard Design.



Inappropriate Display Media

# 2. PENTAHO CDE COMMUNITY DASHBOARD EDITOR

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# DASHBOARD: lab

# PENTAHO COMMUNITY DASHBOARD EDITOR

Layout:



Components:



Data sources:

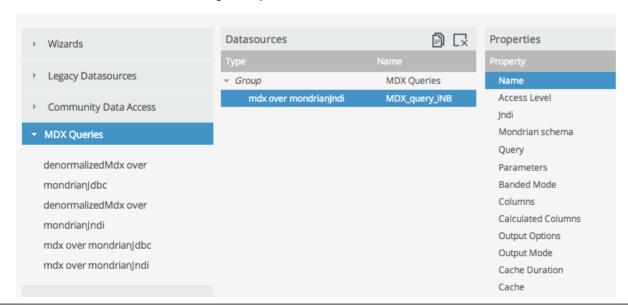




• DATASOURCES: 📋



- MDX Queries.
  - Name: MDX\_queryN\_INB
  - Mondrian schema: inXX ...
  - Jndi: probably in00...
  - Query: paste MDX SELECT.





• LAYOUTS:



Apply template



- 2 columns, header and footer.
- Rows/Columns
  - Name: id of the row
  - BackgroundColor (press checkbox to choose)

• Html : html code you can edit

HEADER				
spacer				
PANEL 1	PANEL 2			
Small space				
FOOT	FOOT IMAGE 23			

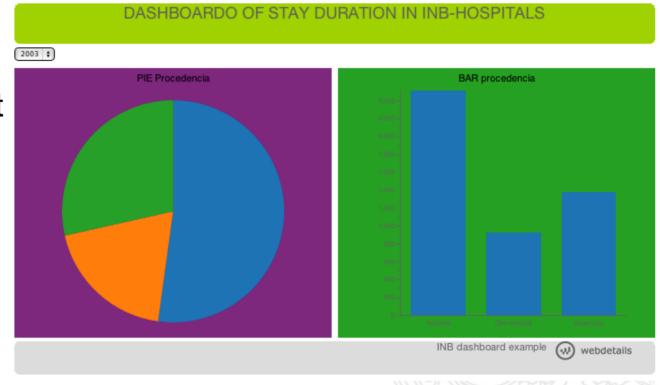
• COMPONENTS:



- Charts.
  - Name: Id of your chart component
  - Datasource: MDXqueryN
  - Title: "CAPTION"
  - HTML Object: id of column/row of the layout (html tag)
    - Example: CCCBar (datasource in columns)
  - Preview (save first)

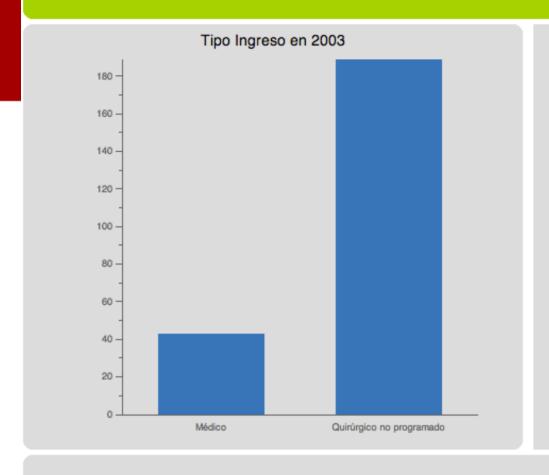
# COMPONENTS:

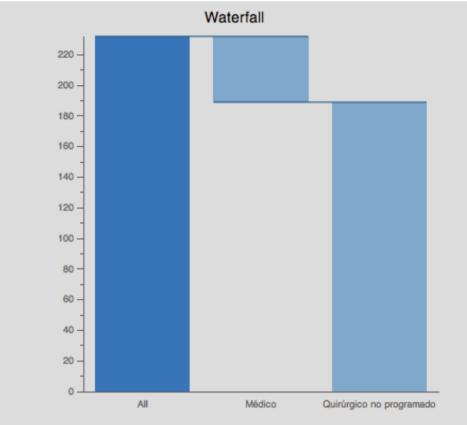
- Simple Example
  - Template layout
  - Source: MDX
  - Chart: pie/bar



SELECT
NON EMPTY {Hierarchize({[Measures].
[duracion]})} ON COLUMNS,
NON EMPTY {Hierarchize({[procedencia].
[procedencia].Members})} ON ROWS
FROM [inb\_student]

## **DASHBOARD EXAMPLE INB 2013**





Author: John Smith



### COMPONENTS:

- Simple Example
  - Template layout
  - Source: MDX
  - Chart: bar/waterfall

SELECT
NON EMPTY {Hierarchize({[time.anno].[2003]})}
ON COLUMNS,
NON EMPTY {Hierarchize({[tipoingreso].

[tipoingreso].Members})} ON ROWS FROM [inb\_manolo]

3. MY FIRST DASHBOARD IN CDE



• LAYOUTS:



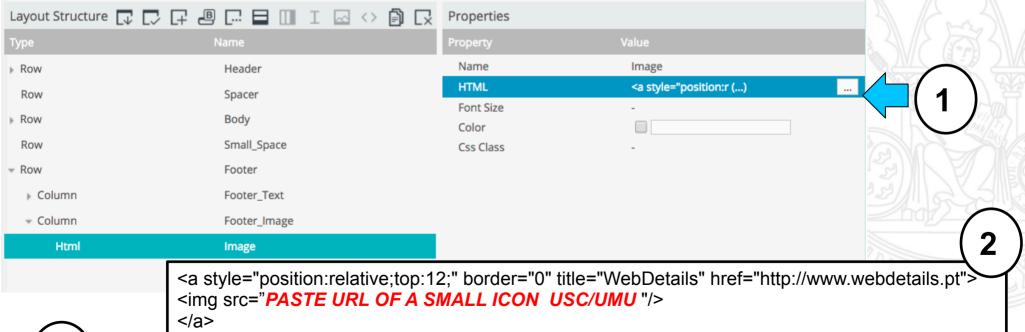
Apply template



2 columns, header and footer.

**HEADER** spacer PANEL 1 PANEL 2 Small space **FOOT FOOT IMAGE** 

Html: html code you can edit

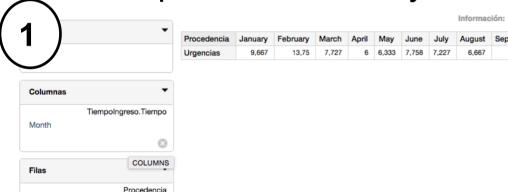


• DATASOURCES: 🗐



- MDX Queries: "Número de pacientes en urgencias por meses"

Open SAIKU Analytics and Copy/Paste MDX query



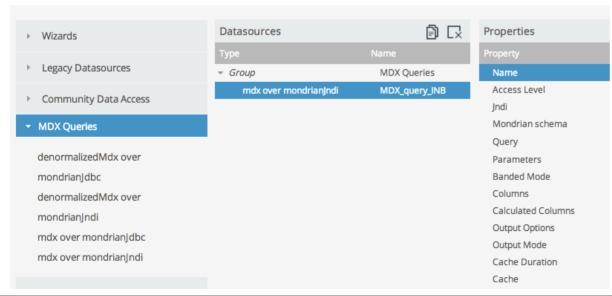


Or design your own MDX query:

SFI FCT

NON EMPTY {[TiempoIngreso.Tiempo].[Month].Members} ON COLUMNS, NON EMPTY {[Procedencia].[Urgencias]} ON ROWS FROM [CuboTutorial]

- DATASOURCES: 🗐
- - MDX Queries: mdx over mondrianJndi
  - MDX Queries: "Número de pacientes en urgencias por meses"
    - Name: query1
    - Mondrian schema: in\_student ...
    - Jndi: press "i" (probably "in00con" or "inc1")



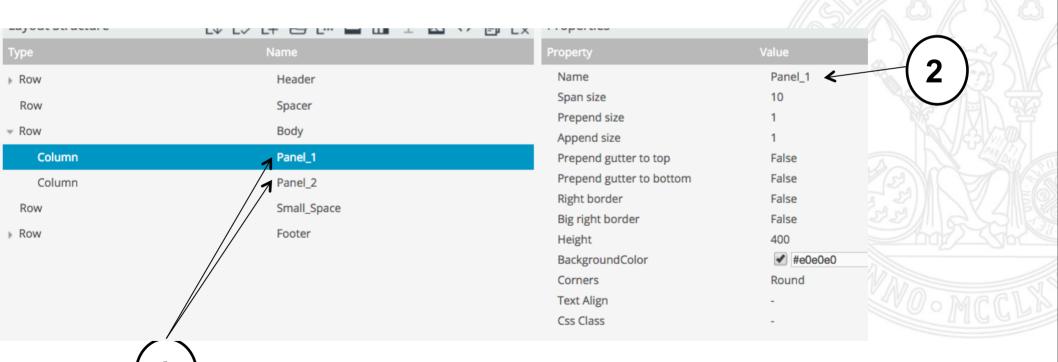


• LAYOUTS:



- 2 columns, header and footer.
- Check the HTML ID of panels

HEADER			
spacer			
PANEL 1	PANEL 2		
Small space			
FOOT	FOOT IMAGE		



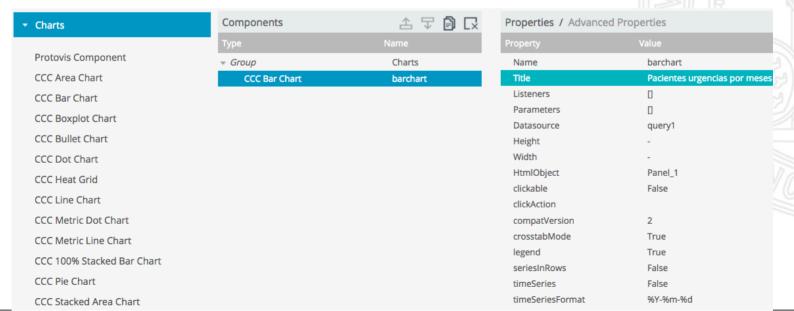
32

# DASHBOARD: lab

• COMPONENTS: 🔼

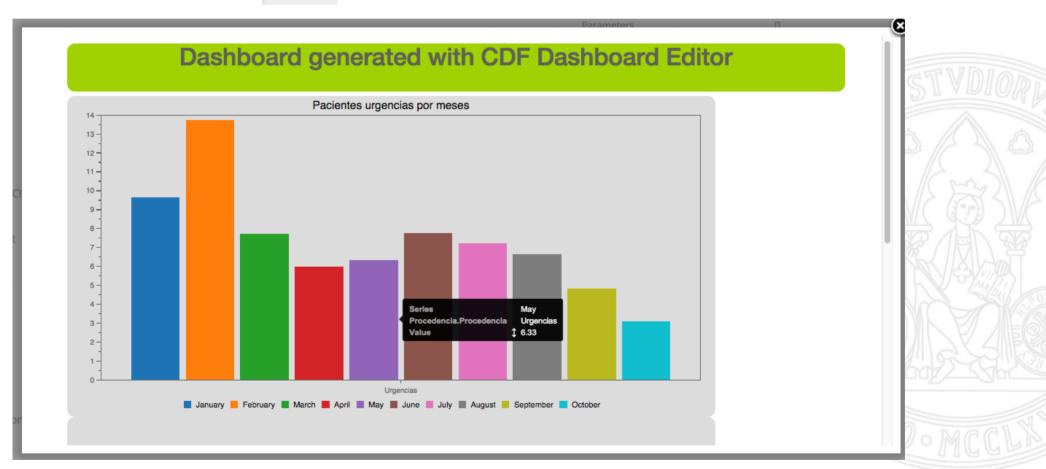


- Choose CHARTS>CCC Chart
- Name: "barchart"
- Title: "Pacienteas urgencias por meses"
- Datasource: "query1" → the one created in DataSources
- HtmlObject: "PANEL\_1"→ componet of Layout □



• Overview:





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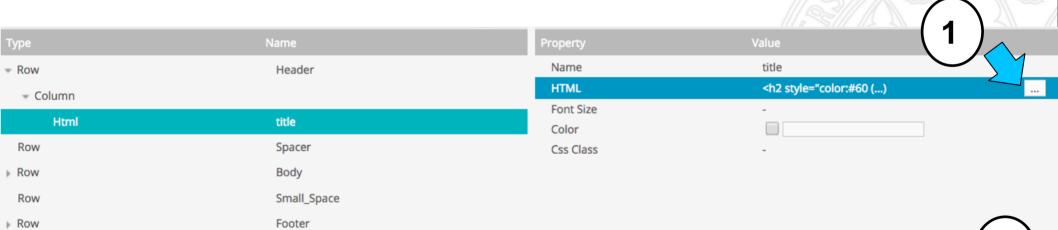
# DASHBOARD: lab

• LAYOUTS:



- HEADER>COLUMN>HTML
- Html : html code you can edit

HEADER			
spacer			
PANEL 1	PANEL 2		
Small space			
FOOT	FOOT IMAGE		



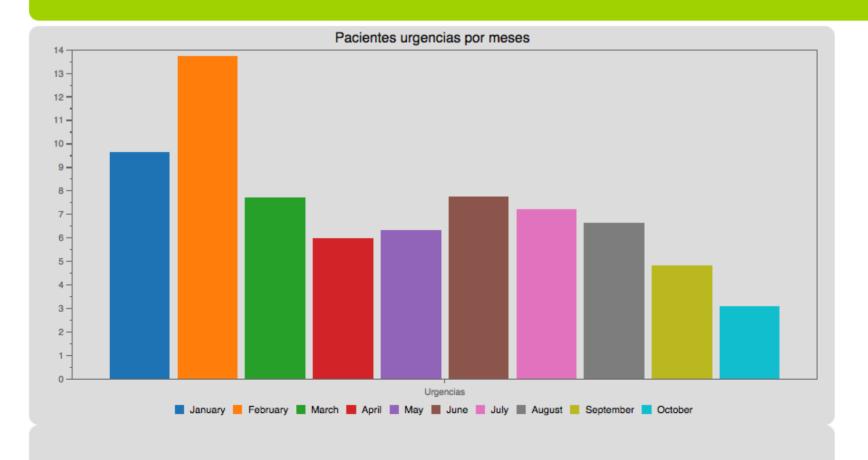
<h2 style="color:#606060;">DASHBOARD FOR MY MASTER COURSE</h2>



Overview:



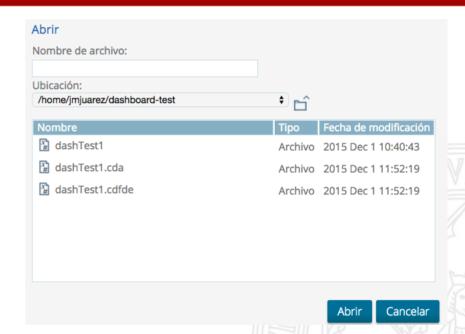
# **DASHBOARD FOR IN: MASTER BIG DATA**



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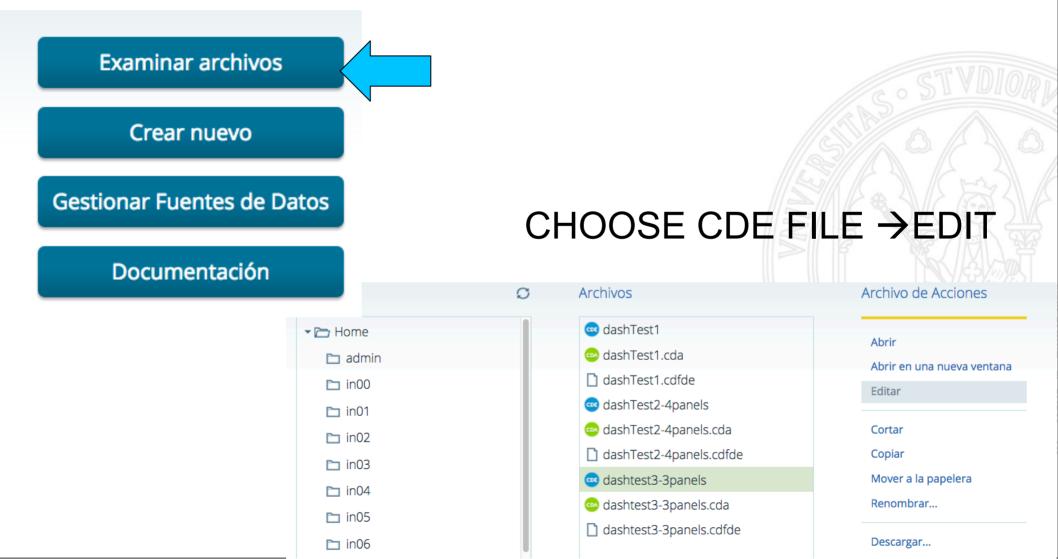
# DASHBOARD: lab

- SAVING CDE PROJECT:
- 3 FILES
  - CDE ProjectFile



- File.cda: Community Data Access: stores the queries
- File.cdfde: sort of jsom file with dashboard template info.

# OPEN EXISTING CDE PROJECT:



- CREATE 2<sup>ND</sup> DISPLAY
  - 1. New MDX Query: NxM table

Procedencia	Médico	Quirúrgico no programado	Quirúrgico programado
Hospital	9,125	7,636	4,074
Otro hospital	11,238	17,714	25,333
Urgencias	5,664	10,846	2,333

- 2. Create Datasource: MDX mondrian over jndi → "query2"
- 3. Create Component:
  - CCC Chart : Heat Grid
  - Title: "Heat Grid"
  - Datasource: "query2"
  - HtmlObject: "Panel\_2"



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# DASHBOARD: lab

- EXERCISE: TYPE A (To Hand In)
  - CREATE NEW DASHBOARD TO...
  - Visualize cost in € of patients according to:
    - Year 2004.
    - Type of Admission & Sex.
    - 1 day of stay costs 250€
  - Create the dashboard according to:
    - MDX query
    - Choose a Dashboard Format (columns/rows/pictures/etc.)
    - Choose the Components (charts)

# MDX: lab

REFERENCES & RESOURCES:

Canal YouTube IN UMU



https://www.youtube.com/channel/UCvRWqdkGhX57ddLNVeUC7Qw

Video Example:

http://www.youtube.com/watch?v=cW8YzwC2uNU