



# OFICINA MUNICIPAL DATOS (OMD)

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## QUÉ OFRECEMOS

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- Conocimiento
  - Complementariedad (enriquecer BBDD)
  - Replicabilidad
  - Escalabilidad
  - Casos de uso
  - Tecnología
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# COMPLEMENTARIEDAD





## CASOS DE USO

### Consum privat a Barcelona

Oficina

#### 1.1.2 Sectors

Evolució del consum privat per set grans sectors d'activitat.

##### Selecció mesura:

- Transaccions (n)
- Valor (€)
- Targetes (n)
- Punts de Venda (n)

##### Selecció territori:

- Barcelona
- Districtes
- Barris

##### Selecció detall:

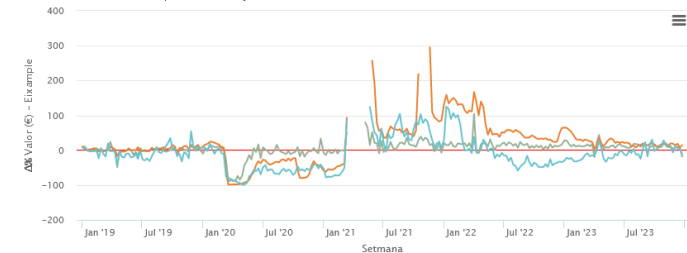
- Setmanal
- Mensual
- Anual

##### Selecció de Districte:

Eixample

##### Valor (€)

% de variació sobre el mateix període de l'any anterior



- Béns i serveis de primera necessitat
- Serveis turístics i de restauració
- Vestit, calçat i moda
- Cultura, lleure i esports
- Tecnologia
- Rest a béns i serveis
- Transport i automoció

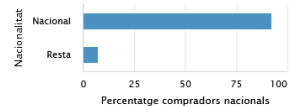
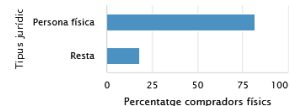
#### Habitatge

Comprador persona física

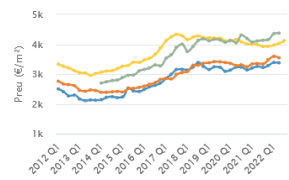
82,0%

Comprador nacional

92,5%

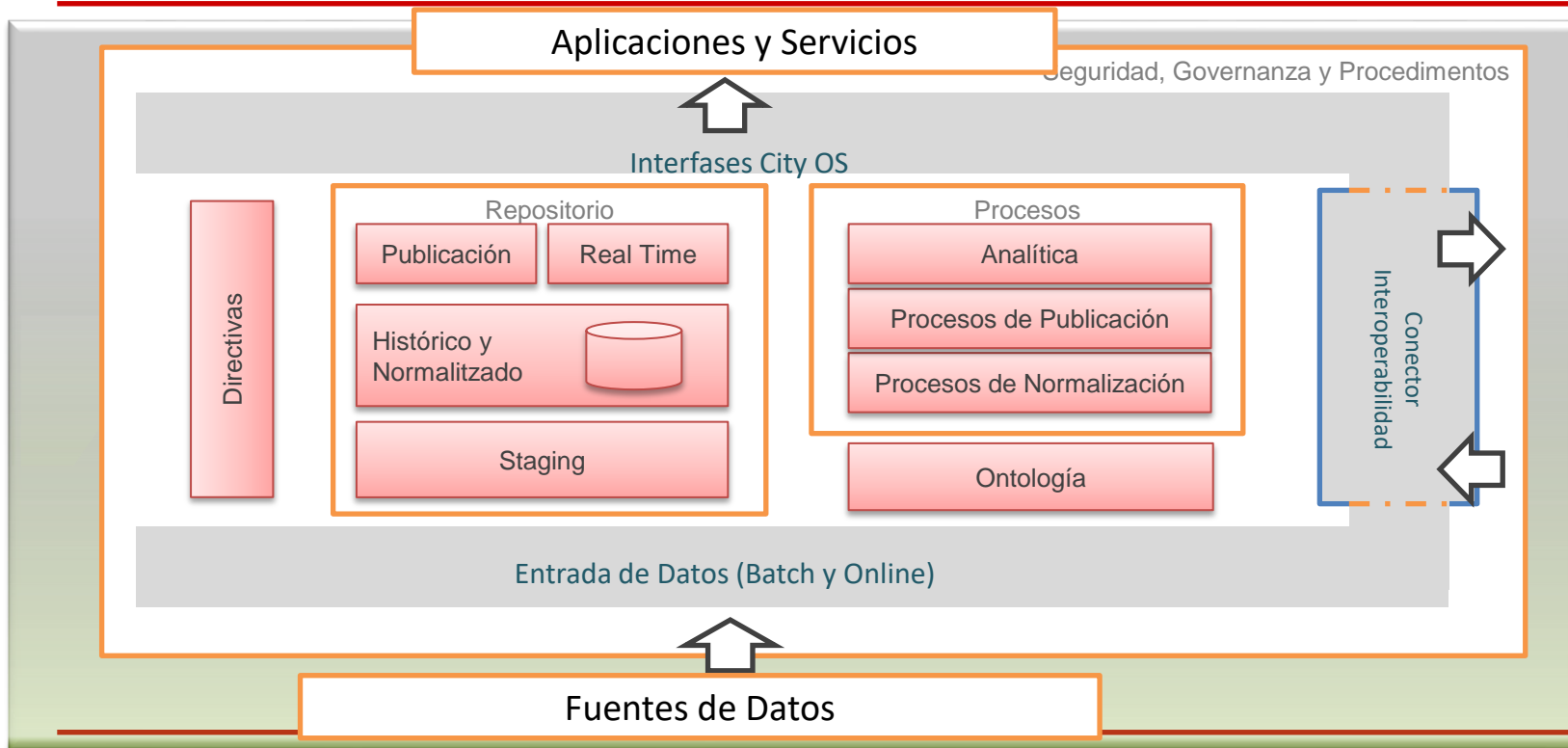


#### Els preus residencials al mercat immobiliari





# TECNOLOGÍA





# TECNOLOGÍA

Origen dades



## Ingesta

Online:



Batch:



## Repositori



## Processos



Automatització  
Planificador



## Servei

**API**

DataLake

Historificació

Analytics



Consumidors

- Opendata
- Web de genere
- Portal Coneixement
- Departaments Ajbcn

APPs Shiny



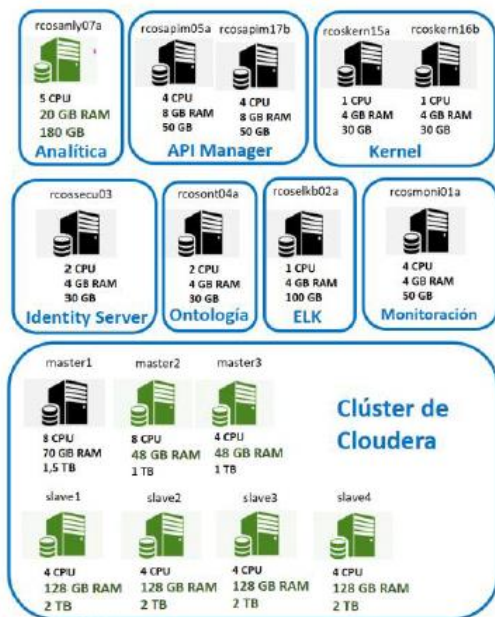
- Desenvolupadors
- Data scientist

Seguretat kerberos - traçabilitat consultes

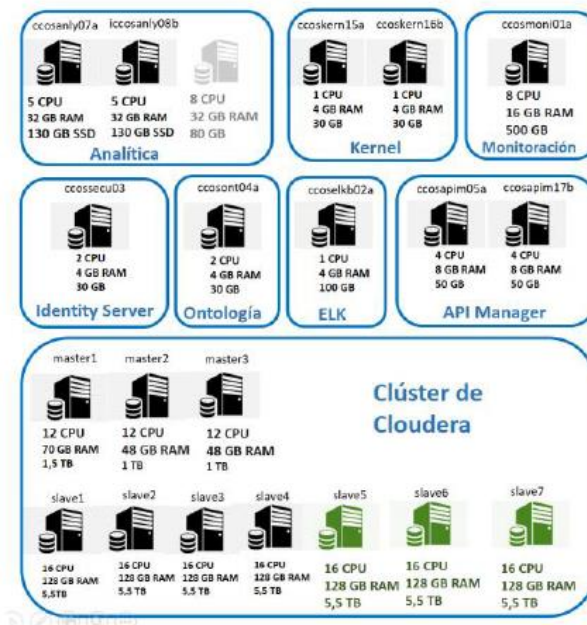


# TECNOLOGÍA

## PRE



## PRÒ





**DATA SPACE FOR  
SMART AND SUSTAINABLE  
CITIES AND COMMUNITIES**

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## CONCLUSIONES

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- Es clave **alinear expectativas**
  - Burocracia (asociada a **transparencia**) **retrasos y complicaciones**: redacción acuerdos (data sharing agreements)
  - B2B está claro pero **¿B2G?**
  - **Financiación EU** actuando como **“trigger”**
  - **GDPR “NO”** es un “stopper”
  - **Huir** de proyectos **macro**, **adopción “Agile”**
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## LECCIONES APRENDIDAS

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- Implementar herramientas de negocio “**Data Cooperation Canvas**” en fase temprana:
    - Definir la **motivación** de cada socio
    - Establecer **modelo de negocio**
  - Aprovechar **tecnologías ya existentes**: abiertas y con estándares
  - Alinear las **necesidades** a recursos técnicos y humanos **existentes**
  - **Planificar en función de la burocracia**
-

# Data Cooperation Canvas

Organisational		WHY		Data & Technical																					
<b>Key partners</b> EFACEC: Porto Digital: Energy Agency:	<b>Shared data flow</b> What steps are performed as a shared process in the data exchange? What steps are done individually? <table border="0"> <tr> <td>Use</td> <td><input type="checkbox"/></td> <td>Individual state <input type="checkbox"/></td> </tr> <tr> <td>Visualise</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Interpret</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Combine</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Transform</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Store</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Create</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Use	<input type="checkbox"/>	Individual state <input type="checkbox"/>	Visualise	<input type="checkbox"/>	<input type="checkbox"/>	Interpret	<input type="checkbox"/>	<input type="checkbox"/>	Combine	<input type="checkbox"/>	<input type="checkbox"/>	Transform	<input type="checkbox"/>	<input type="checkbox"/>	Store	<input type="checkbox"/>	<input type="checkbox"/>	Create	<input type="checkbox"/>	<input type="checkbox"/>	<b>Context</b> What is the business context that creates the opportunity/necessity for data exchange?	<b>Data &amp; data source</b> What data is exchanged? What are the data sources used?	<b>Interoperability</b> How can the data be uniformed/standardized/combined? What shared concepts, languages, formats, or methods can be used? Is it hard to combine all the data? Or are standard definitions available? What data standards & formats are used or need to be used?
Use		<input type="checkbox"/>	Individual state <input type="checkbox"/>																						
Visualise		<input type="checkbox"/>	<input type="checkbox"/>																						
Interpret	<input type="checkbox"/>	<input type="checkbox"/>																							
Combine	<input type="checkbox"/>	<input type="checkbox"/>																							
Transform	<input type="checkbox"/>	<input type="checkbox"/>																							
Store	<input type="checkbox"/>	<input type="checkbox"/>																							
Create	<input type="checkbox"/>	<input type="checkbox"/>																							
<b>Resources</b> What organizational resources are required for this data cooperation? What resources are available already? What needs to be done to get all required resources?	<b>Added value data exchange</b> Why will this data exchange succeed? What is the added value for participants?																								
<b>Business case</b> What are the costs of the data exchange? Who is paying? What are the revenues? Who is profiting? What compensation, fees or other financials are needed?	<b>Motivation &amp; objectives</b> What is the motivation for the key partners to join the data exchange? What are their main objectives of participating?																								
<b>Governance model</b> How are rules, norms and actions structured/sustained/regulated to control the data exchange?	<b>Implementation model</b> What approach will be used for realizing and implementing the data exchange.	<b>Technical concepts/models</b> What technical concepts or models need to be in place for the data exchange. What MIMs are implemented and how are they implemented?	<b>Technical infrastructure characteristics</b> What kind of technical infrastructure is needed for the data exchange?																						
<b>Current status</b> What is the current status of the cooperation <table border="0" style="width: 100%; text-align: center;"> <tr> <td style="width: 20%;"></td> <td style="width: 15%; background-color: yellow;">Exploratory stage</td> <td style="width: 15%; background-color: lightgreen;">Preparatory stage</td> <td style="width: 15%; background-color: green;">Implementation stage</td> <td style="width: 15%; background-color: orange;">Operational stage</td> <td style="width: 20%; background-color: blue;">Scaling stage</td> </tr> </table>							Exploratory stage	Preparatory stage	Implementation stage	Operational stage	Scaling stage														
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