Open Government Data – 27/11 - Brussels

INTRODUCTION PROVENCE-ALPES-CÔTE D'AZUR DATA REGIONAL STRATEGY

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

Smart Region in a brief

The open and smart data regional strategy

Focus on DataSud

Focus on large thematic datasets

Focus on Research and Development data projects

The five pillars of the Smart Region strategy

- I / Federate territories for an ambitious and balanced digital infrastructures deployment.
  II / The leading region in the openness of digital data, serving territories and innovation
  III / Making Provence-Alpes-Côte d'Azur the territory of digital experimentation
  IV / The Region is committed to innovative services, now and in the long term
  V / Digital divide, training and promotion of an ethical approach to digital innovation

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INTRODUCING THE REGIONAL DATA STRATEGY

THE OPEN AND SMART DATA REGIONAL PROGRAM

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The second pillar of the Smart Region strategy is entirely dedicated to digital data.
The open and smart data regional program is composed of 6 operational pillars

I. PUBLIC & PRIVATE DATA PARTNERSHIP PROGRAM
50 partners / 600 datasets / 700,000 downloads ->2017.
A new partnership agreement & convention around 4 axes

II. DATASUD, the open, smart and geographic **data regional platform** (REGION & CRIGE paca)
Mutualizing a data plateform, hosting, web services… at a regional level.

III. Open and smart data permanent call for projects
21 projects financed for a total amount of € 210,000 from 2016 to 2018.

IV. INDUSTRIALIZE THE OPENING OF MAJOR THEMATIC DATASETS
Transports, Energy, Tourism, Heritage and culture, Training …

V. OPEN AND SMART DATA INTERNAL PROGRAM
Relaunch of the internal approach: go for an organization "data-centric",
Creation of a Datalab.

VI. PUBLIC-PRIVATE R&D DATA PROJECTS
Research and Development projects enhancing next generation f services in the field of energy and employment.
ORANGE / POLE EMPLOI / INRIA…

THE OPEN AND SMART DATA REGIONAL PROGRAM
-> A PUBLIC & PRIVATE DATA PARTNERSHIP PROGRAM

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THE OPEN AND SMART DATA REGIONAL PARTNERSHIP IS A PROGRAM OPEN TO PUBLIC AND PRIVATE ORGANIZATIONS

- Axis 1 - Animate the network of data actors (public and private)
- Axis 2 - Enable the publication and dissemination of data on DataSud platform
- Axis 3 - Promote the deployment of new digital uses and services (challenges, call for projects…)
- Axis 4: Provide partners with know-how, technical expertise and assistance in publication and dissemination of data

Around 50 partners are invested and publish their data on DataSud.

- Joining by signing a partnership agreement on open and smart data.
- Free service and accessible to all the communities of the regional territory.
- Mutualize, train and support territorial dynamics "data-centric"

THE OPEN AND SMART DATA REGIONAL PROGRAM
-> A PUBLIC & PRIVATE DATA PARTNERSHIP PROGRAM

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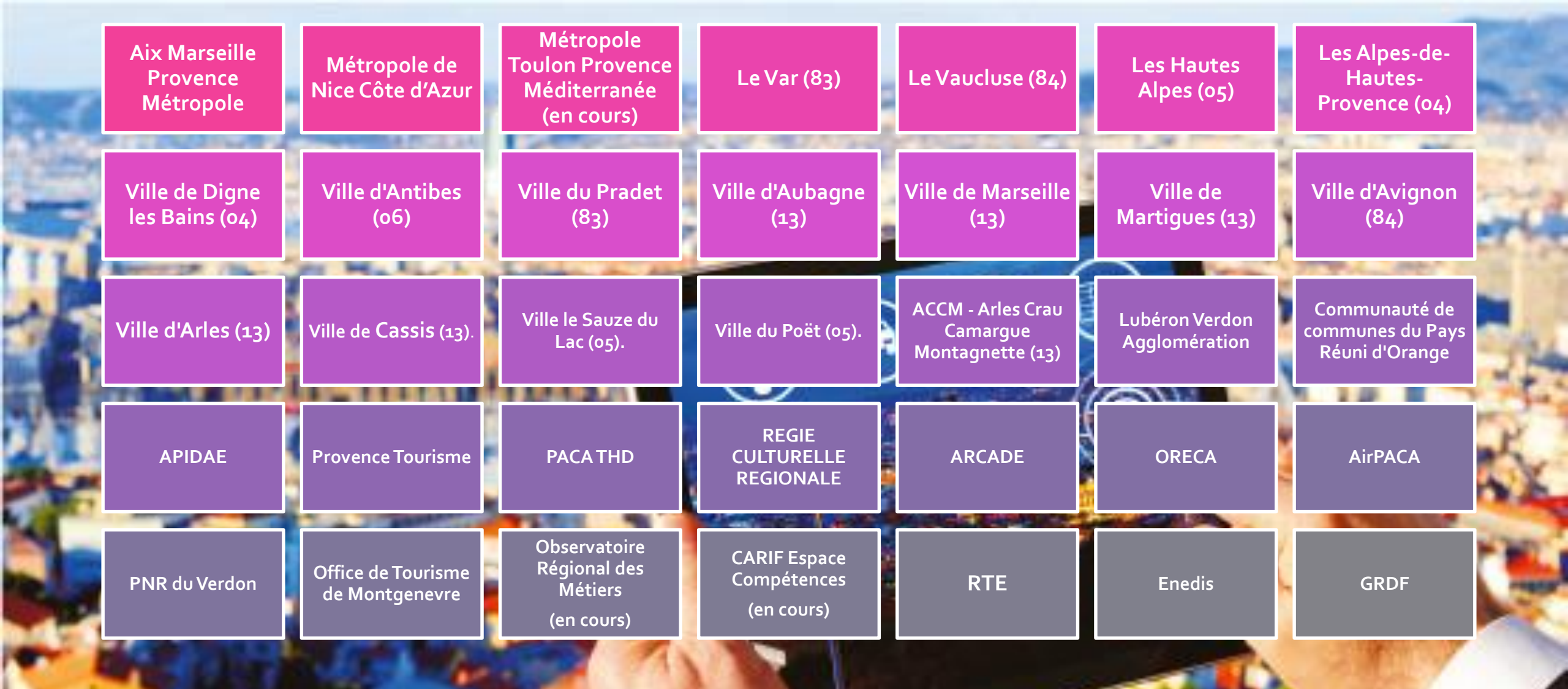
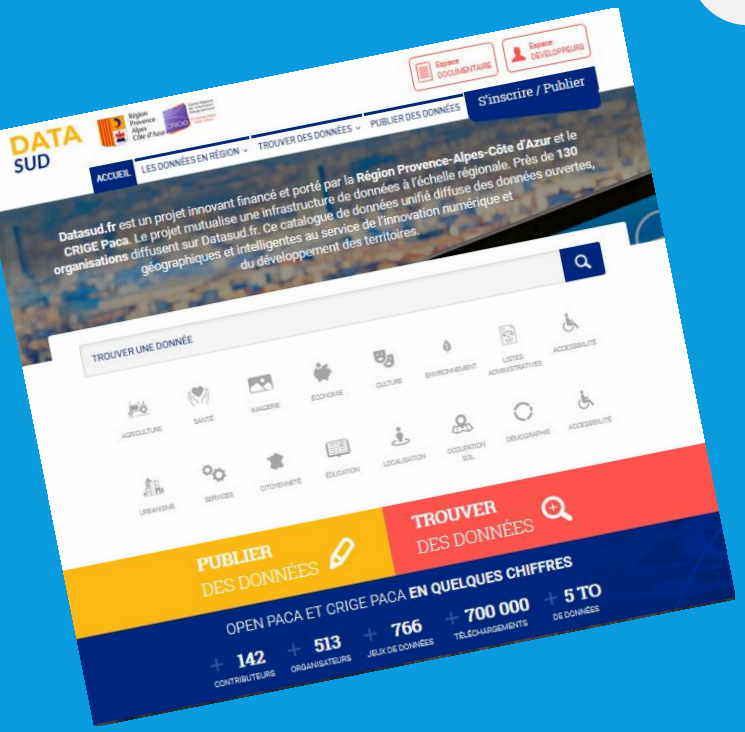


Aix Marseille Provence Métropole	Métropole de Nice Côte d'Azur	Métropole Toulon Provence Méditerranée (en cours)	Le Var (83)	Le Vaucluse (84)	Les Hautes Alpes (05)	Les Alpes-de-Hautes-Provence (04)
Ville de Digne les Bains (04)	Ville d'Antibes (06)	Ville du Pradet (83)	Ville d'Aubagne (13)	Ville de Marseille (13)	Ville de Martigues (13)	Ville d'Avignon (84)
Ville d'Arles (13)	Ville de Cassis (13).	Ville le Sauze du Lac (05).	Ville du Poët (05).	ACCM - Arles Crau Camargue Montagnette (13)	Lubéron Verdon Agglomération	Communauté de communes du Pays Réuni d'Orange
APIDAE	Provence Tourisme	PACA THD	REGIE CULTURELLE REGIONALE	ARCADE	ORECA	AirPACA
PNR du Verdon	Office de Tourisme de Montgenevre	Observatoire Régional des Métiers (en cours)	CARIF Espace Compétences (en cours)	RTE	Enedis	GRDF

DATASUD : MUTUALIZING A DATA PLATFORM AT A REGIONAL LEVEL

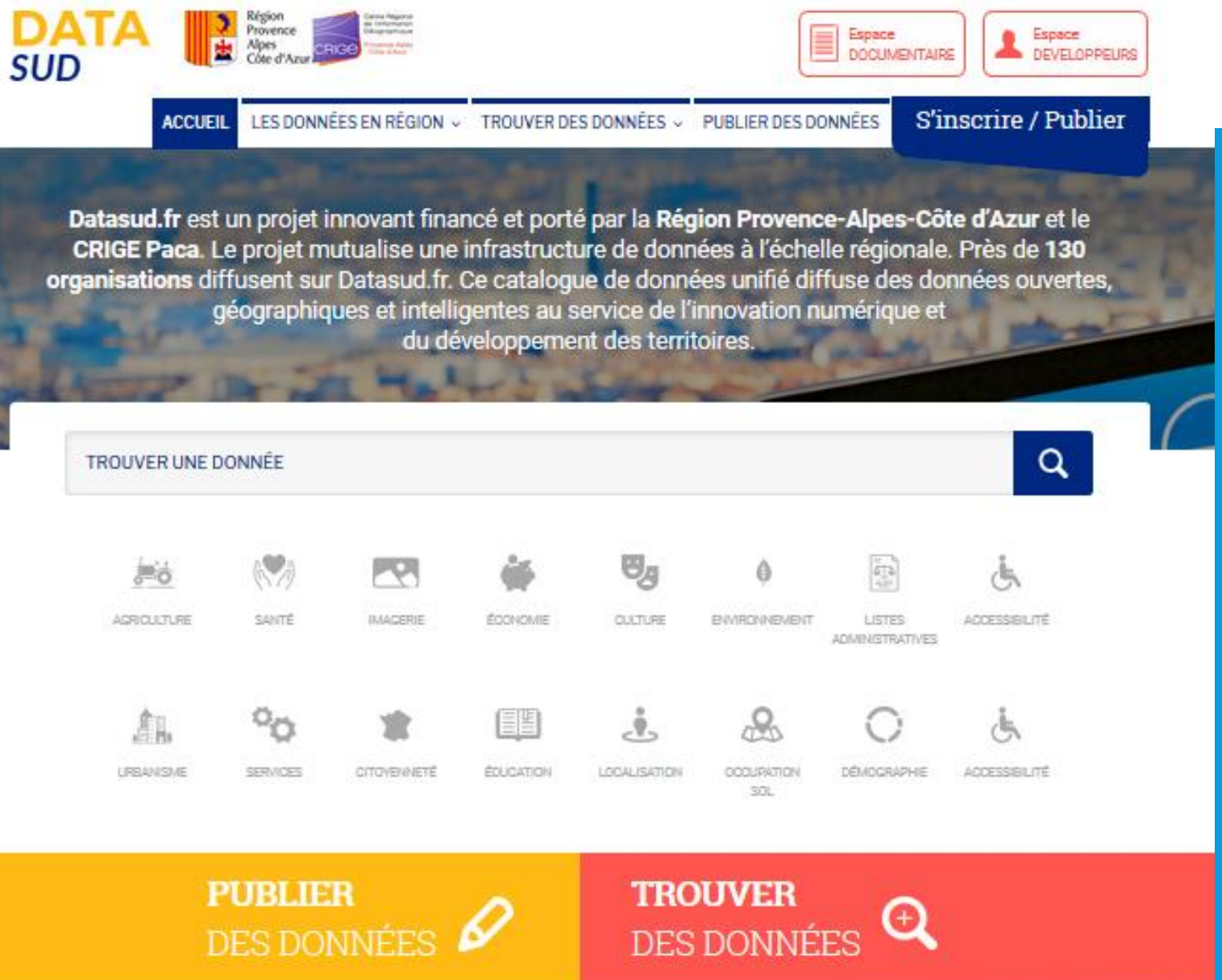
RÉGION SUD PROVENCE ALPES CÔTE D'AZUR



- Proposing a single entry for data at a regional level
- Break silo approaches, disseminate open, geographic and smart data
- Industrialize diffusion of multithematic datasets, augment data available for developers and startups
- Public-private partnerships to serve the development of territories
- Guarantee the sovereignty of data infrastructures
- Mutualize a data plateform, its hosting and its services
- Produce common digital good. Platform & modules released in OpenSource

FOCUS ON DATASUD

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR



>> Opening of the platform on 03/03/2018. (INTERNATIONAL OPEN DATA DAY).

>> Over 600 new datasets published by partners in six months.

>> over 90% of datasets unlrealeases before.

>> API and WEB SERVICES access progressing rapidly.

>> A framework agreement (public tender) with CRIGE Paca.

>> Three years of agile development cycles.

>> 15TB of data hosting potential.

6 jeux de données trouvés pour "hôtels"

Par Ordre: Pertinence

Hôtellerie de Provence-Alpes-Côte d'Azur

Région Sud

Objet touristique "Hôtellerie" (HOT) en Provence Alpes Côte d'Azur comprenant les hôtels, classés ou non (Atout France) exportés du Système d'information touristique régional...

XLS ODS PDF

Données ouvertes Données intelligentes

Avignon - Journées européennes du patrimoine - 2016

Liste des sites des journées européennes du patrimoine des 17 et 18 septembre 2016 à Avignon. 4 thèmes sont proposés : Hôtel de ville et établissements municipaux Musées et...

HTML XML CSV SHP GeoJSON SL3

Données ouvertes Données intelligentes Données géographiques

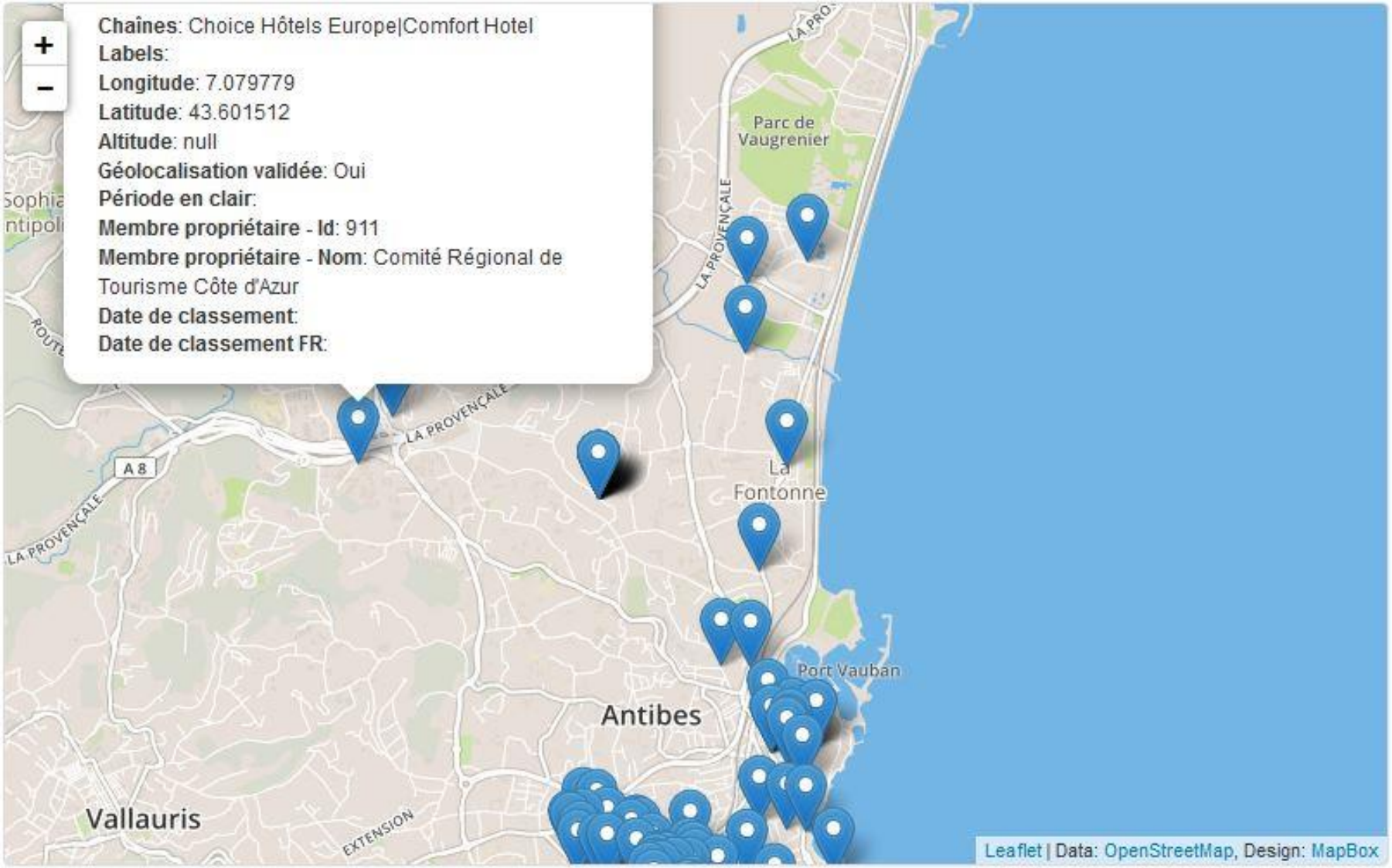
Parcours culturels à Marseille

Liste des 11 parcours de visites à faire dans la ville de Marseille, visites touristique et historique recensés en 2015 : parcours 1: du musée d'histoire aux Réformés;...

CSV HTML

Données ouvertes Données intelligentes

Grille | Graphe | Carte | 94 records | « | 1 – 100 | » | Rechercher | Filtres



- (•) Latitude/longitude
- ( ) Champ GeoJSON

Latitude

Latitude

Longitude

Longitude

Mettre à jour

- [x] Zoom automatique sur les objets
- [ ] Marqueurs de regroupement

Filtres

Ajouter un filtre

Commune ×

Antibes

OpenStreetMap et ses contributeurs

4 Jeux de données

Operation Canourgues 2030 Salon-de-Provence

1 Jeu de données

ORECA
Observatoire Régional de l'Energie, du Climat et de l'Air de Provence-Alpes-Côte d'Azur

ORECA

12 Jeux de données

ORS
OBSERVATOIRE REGIONAL DE LA SANTE
PROVENCE-ALPES-CÔTE D'AZUR

ORS Provence-Alpes-Côte d'Azur

1 Jeu de données

PARCS NATURELS RÉGIONAUX
de Provence-Alpes-Côte d'Azur

Parcs naturels régionaux de Provence-Alpes-Côte d'Azur

37 Jeux de données

pôle emploi

Pôle Emploi

4 Jeux de données

PROVENCE-ALPES
AGGLOMÉRATION

Provence Alpes Agglomération

1 Jeu de données

PROVENCE
TOURISME

Provence Tourisme

9 Jeux de données

Région
Provence-Alpes-Côte d'Azur

Région Sud

33 Jeux de données

Rte
Le réseau de transport d'électricité

RTE

2 Jeux de données

Provence-Alpes-Côte d'Azur
TRES HAUT DEBIT

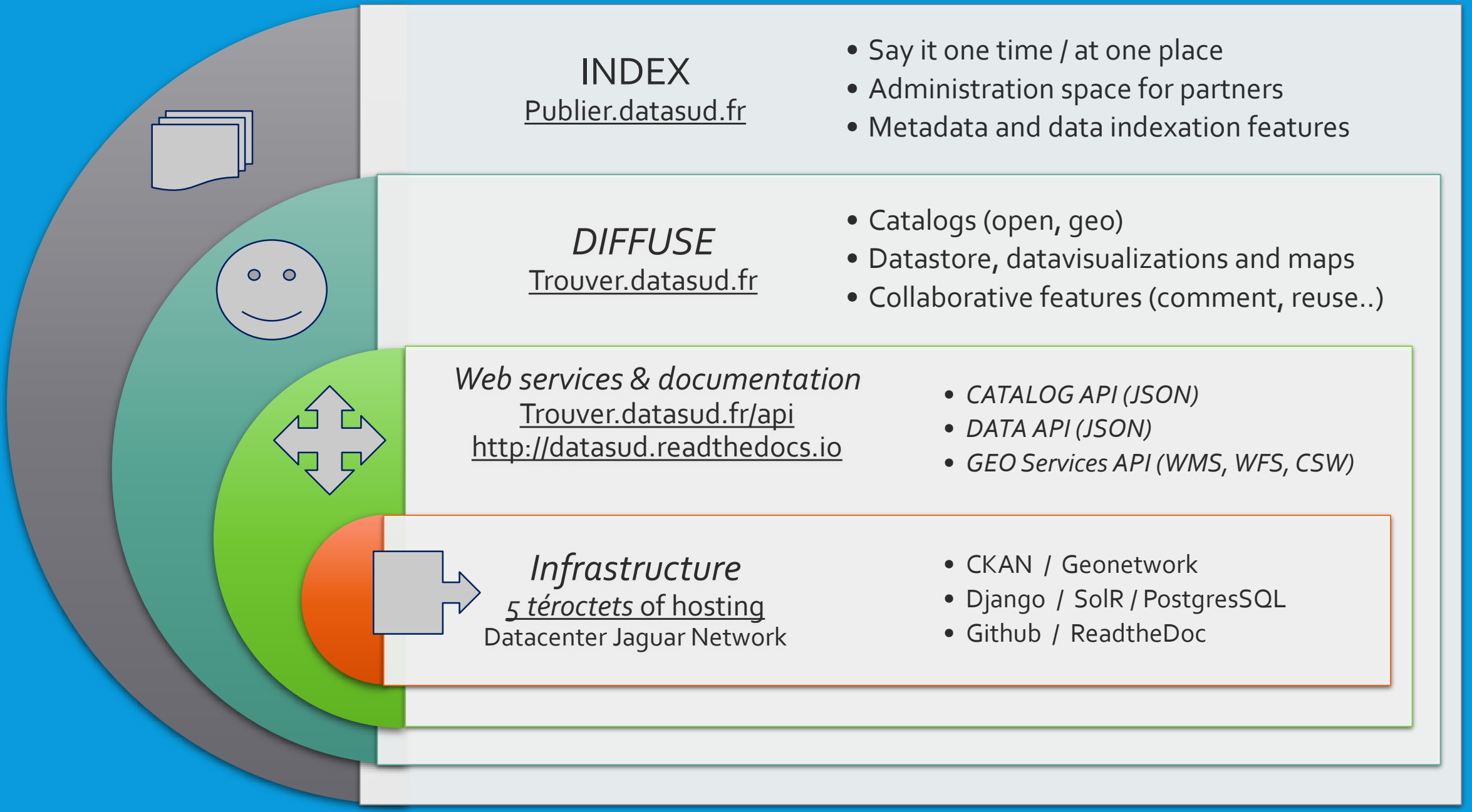
SMO PACA THD

1 Jeu de données

VILLE D'ANTIBES
Juan-les-Pins

Ville d'Antibes Juan-les-Pins

6 Jeux de données


INDEX
Publier.datasud.fr
• Say it one time / at one place
• Administration space for partners
• Metadata and data indexation features
DIFFUSE
Trouver.datasud.fr
• Catalogs (open, geo)
• Datastore, datavisualizations and maps
• Collaborative features (comment, reuse..)
Web services & documentation
Trouver.datasud.fr/api
http://datasud.readthedocs.io
• CATALOG API (JSON)
• DATA API (JSON)
• GEO Services API (WMS, WFS, CSW)
Infrastructure
5 téroctets of hosting
Datacenter Jaguar Network
• CKAN / Geonetwork
• Django / SolR / PostgresSQL
• Github / ReadtheDoc

OPEN AND SMART DATA PERMANENT CALL FOR PROJECTS

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

The Region is one of the few territories at a national level to offer a public fund dedicated to support data projects. The framework of intervention and the permanent call for projects is called "open and smart data", voted in spring 2016.

The aim is to massify available data at a regional level and promote a data literacy, serving the common digital good and the development of new digital uses.

Open to the public and private sector.

Theme A / Data Infrastructures with a ceiling of € 25,000.

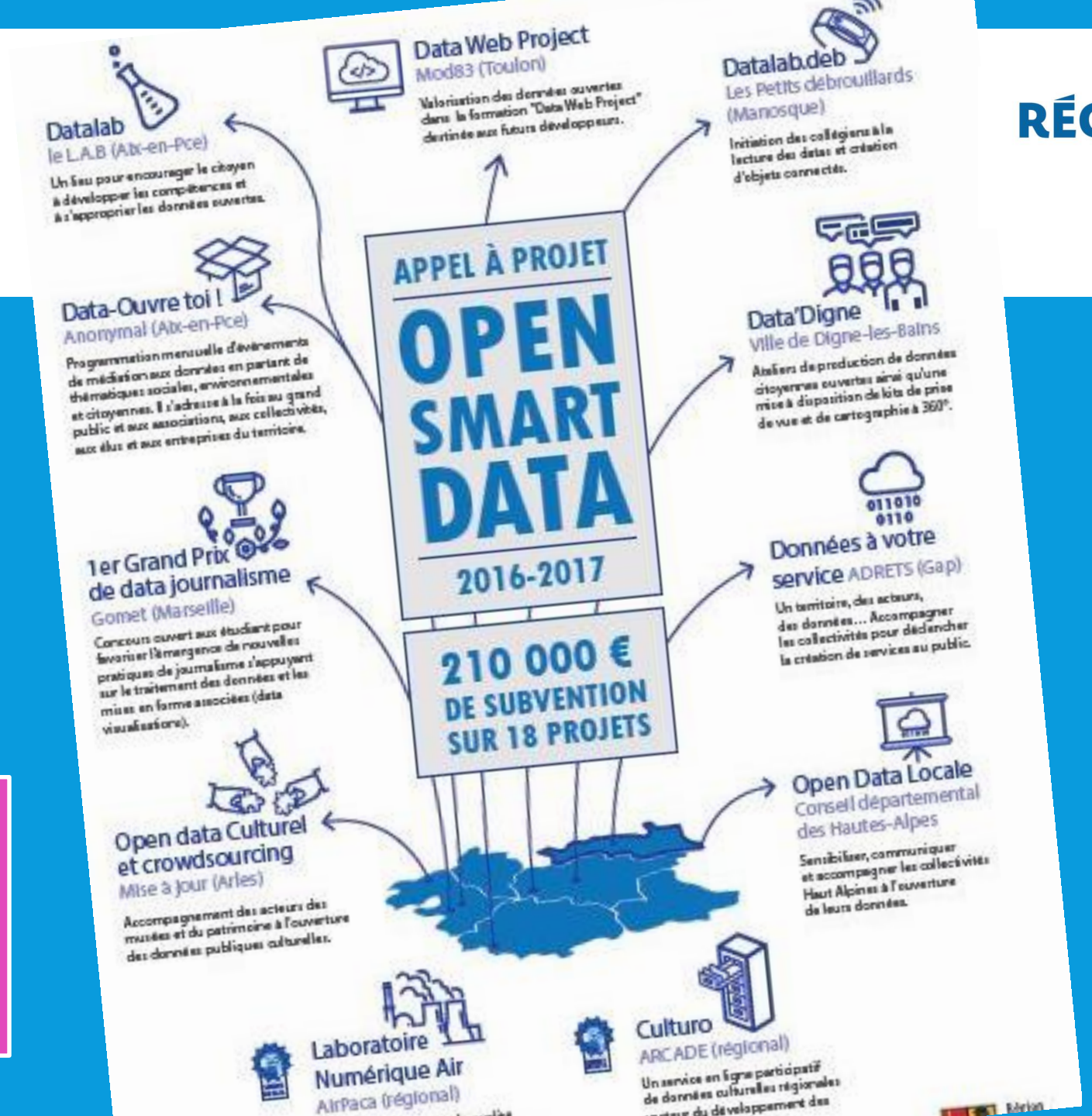
Thematic: B / Mediations with data with a ceiling of 10 000 €

7 projects funded in 2016. € 80,000 grants.

11 projects funded in 2017. 130 000 € grants.

FEW PROJECTS FINANCED

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR



FOCUS 1
Data'Digne'

FOCUS 2
Data-journalism regional price

FOCUS 3
Donut Infolab

LARGE THEMATICS DATASETS

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

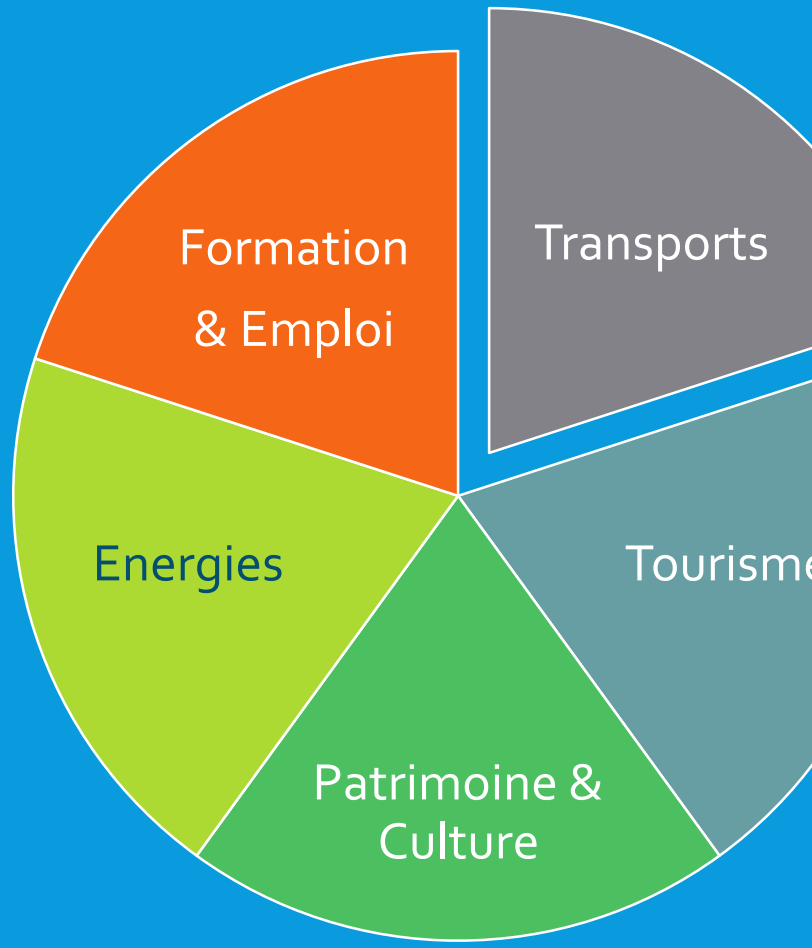
Opening large thematic datasets homogenized at a regional level, with increased update frequency and web services to industrialize reuse services.

- Tourism datasets : APIDAE. Including hotels, places to visit, retaurants, activities. Opened in standardized formats, at a regional level, interpretable by a machine (API for data).
- RTE Eco2Mix real-time data flow, displaying the state of the regional power grid at the 20-minute time step.
- ATMOSUD, air quality at a regional level, standardized formats, interpretable by a machine, updated each hour.

- And also, agendas, regional entreprise directory, energy consumption, OPENSTREETMAP extractions…

Transport datasets with all TER, MER and intercity bus opened by the Council. Inviting local transport aggregator to do so. Serialize extractions from "PACA Mobilité".

Employment and professional training data (regional catalog of the professional training offer) is also being consolidated for dissemination in OpenData.



FOCUS ON RESEARCH AND DEVELOPMENT DATA PROJECTS

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

FlexGRID Data

Accueil | Le projet | Les objectifs | Les cas d'usages | Documentation technique | Contact

La convention de Recherche et Développement

Une des actions transverses FlexGRID prévoit le déploiement d'une plateforme de données et services Énergies. En cohérence avec la stratégie Smart Région la Région Provence-ALpes-Côte d'Azur a privilégié le financement d'une première phase de Recherche et Développement. Le rapport n°39179 du 7 juillet 2017 entérine la signature d'une convention de Recherche et Développement avec Orange. .

- Chef de file : Région Provence-Alpes-Côte d'Azur
- Cheville ouvrière : Cap Energies.
- Maitre d'œuvre : Consortium Orange.

RESEARCH AND DEVELOPMENT DATA PROJECTS
FLEXGRID DATA

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

Flexgrid *-> adressing smartgrids issues*

Selected by the government in 2016 after a national call for projects, FLEXGRID is a program of deployment of intelligent energy systems. It aims to deploy from 2017, a set of Smart Grids equipments and technologies at an industrial level, to boost the economic fabric and make the deployment area a showcase for the export of French know-how in terms of Smart Grids.

This deployment combines:

- Investments by network operators RTE and ENEDIS (Smart Grids base)
- Initiatives and investments from local authorities and companies,
- Support from the State and the South Provence-Alpes-Côte d'Azur Region.

FLEXGRID implements about 40 projects, which are as many sites of deployment of energy systems, calling on green production, energy efficiency, electric mobility on sites, smart cities or buildings, increasing the positive effects in terms of reducing carbon emissions and energy consumption through digitalization of energy networks.

RESEARCH AND DEVELOPMENT FOCUS ON FLEXGRID DATA

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

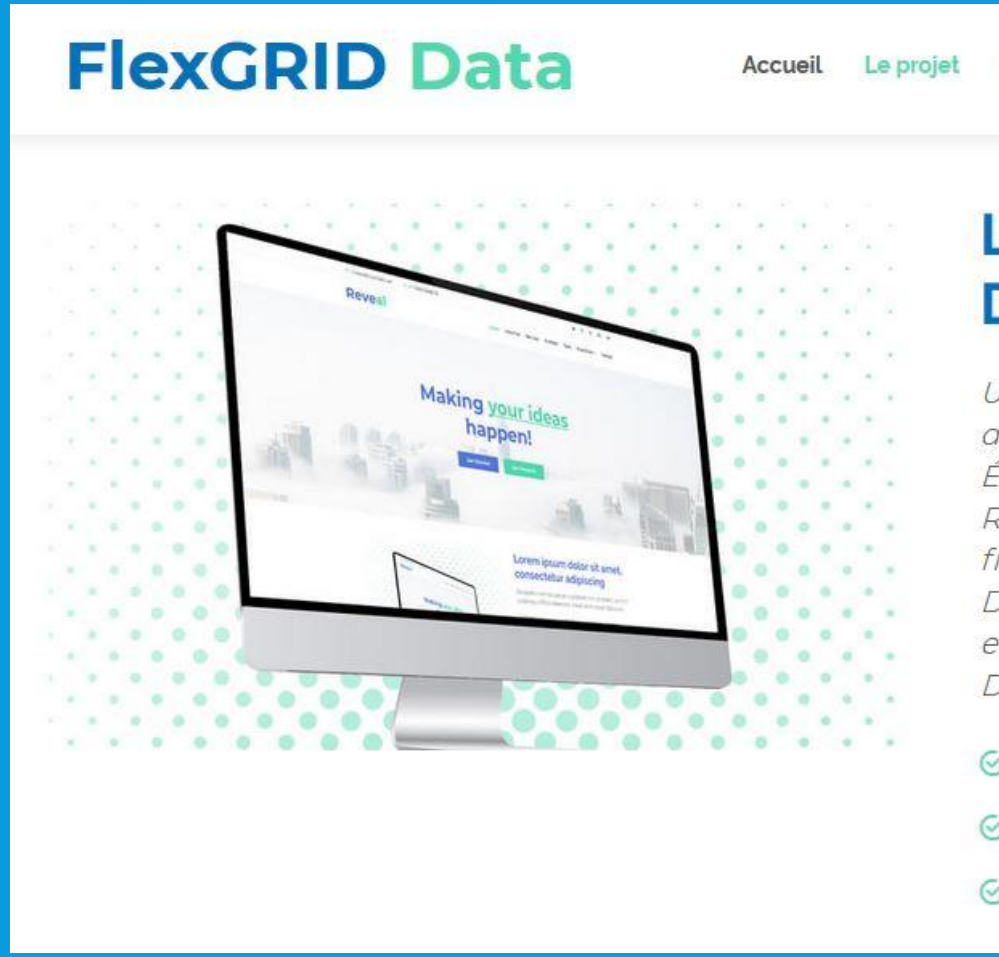
One of the transversal projects initially proposed in the global project was adressing data energy issues :

- Leader: Provence-Alpes-Côte d'Azur Region
- Expert: Cap Energies.
- Executor : Orange Consortium.
  Actions planned:

A: Experimentation of shared governance and valorisation of REI data at regional level

B: A regional digital data platform (for energy) at the regional level

C: The development of SmartGrid services and activities



FOCUS ON FLEXGRID DATA R&D PROJECT

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

Which services to consider? What kind of legal structure should pilot such a platform? What are the economic models envisaged regarding data ? What governance of private public data sharing?

In accordance with the Smart Region strategy, the Region favored financing a first phase of Research and Development.

Report n ° 39179 of July 7, 2017 confirms the signature of a Research and Development agreement shared with Orange.

This legal arrangement is a first in the institution. The budget is 436 000 € HT (50/50).

Phase 1

- **R&D agreement**
- *Prefiguration study (legal, leader…)*

Phase 2

- *Create an dedicated organization*
- *Deploy a industrialized « data plateform for energy » solution*

FOCUS ON FLEXGRID DATA R&D PROJECT

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

Why a R&D agreement ?

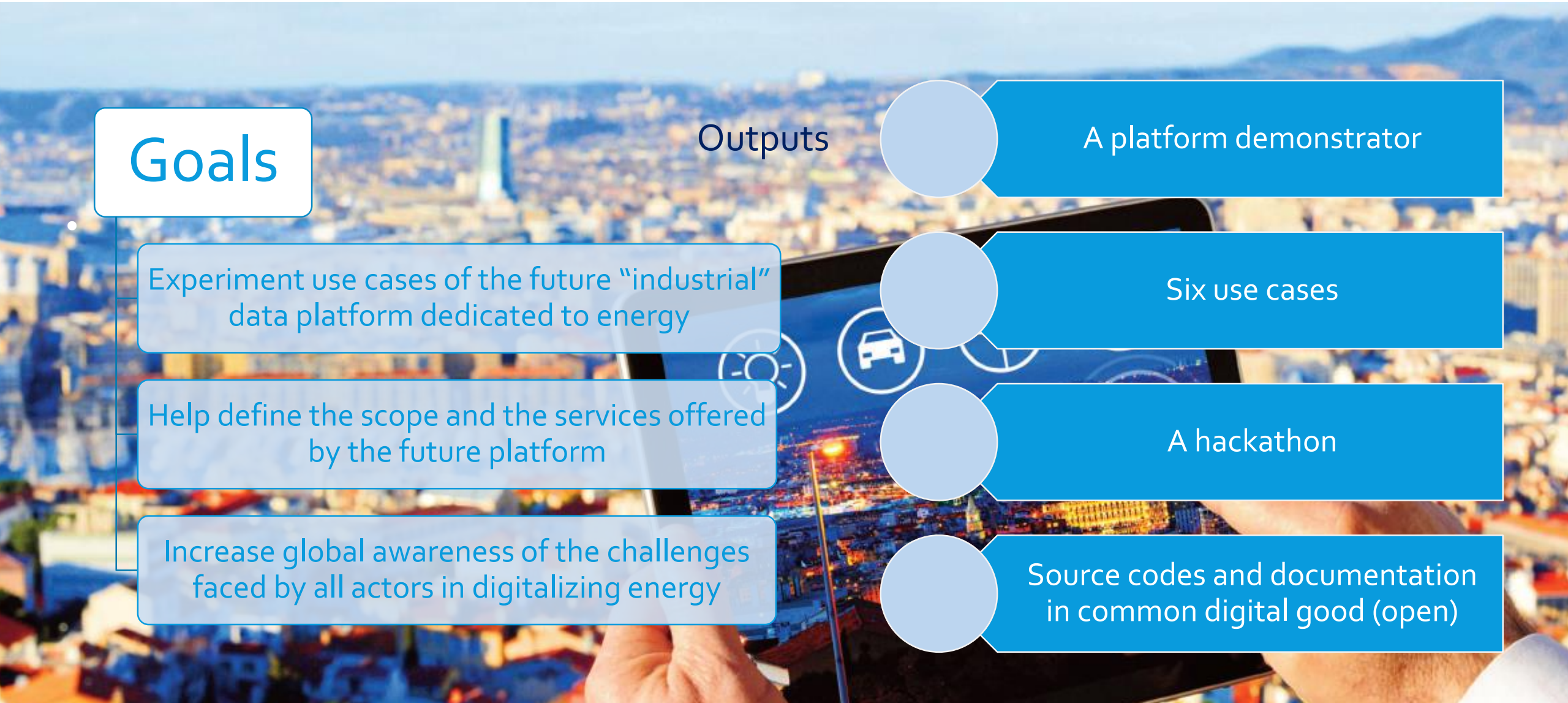
The french legal translation :

Application of Article 14, paragraph 3 of the Ordinance of 23 July 2015 related to public procurement :

Research and development projects, shared between public and private partners, make it possible to remove technical locks (through the design and experimental application of new solutions) and organizational barriers (for example in terms of trusted third parties, value) to provide the proof of concept needed for public demand and scaling up.

FOCUS ON FLEXGRID DATA R&D PROJECT

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR



Goals

- Experiment use cases of the future "industrial" data platform dedicated to energy
- Help define the scope and the services offered by the future platform
- Increase global awareness of the challenges faced by all actors in digitalizing energy

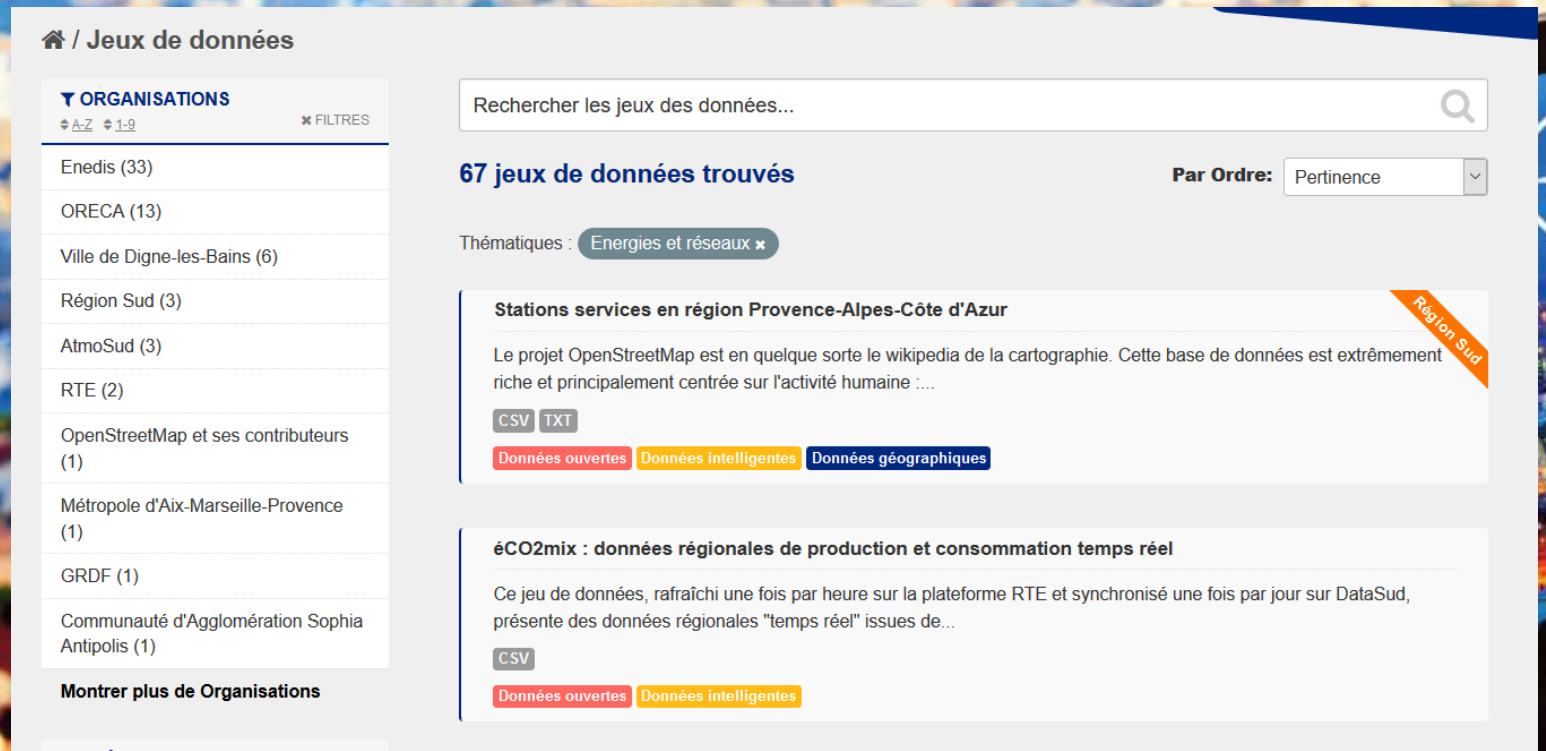
Outputs

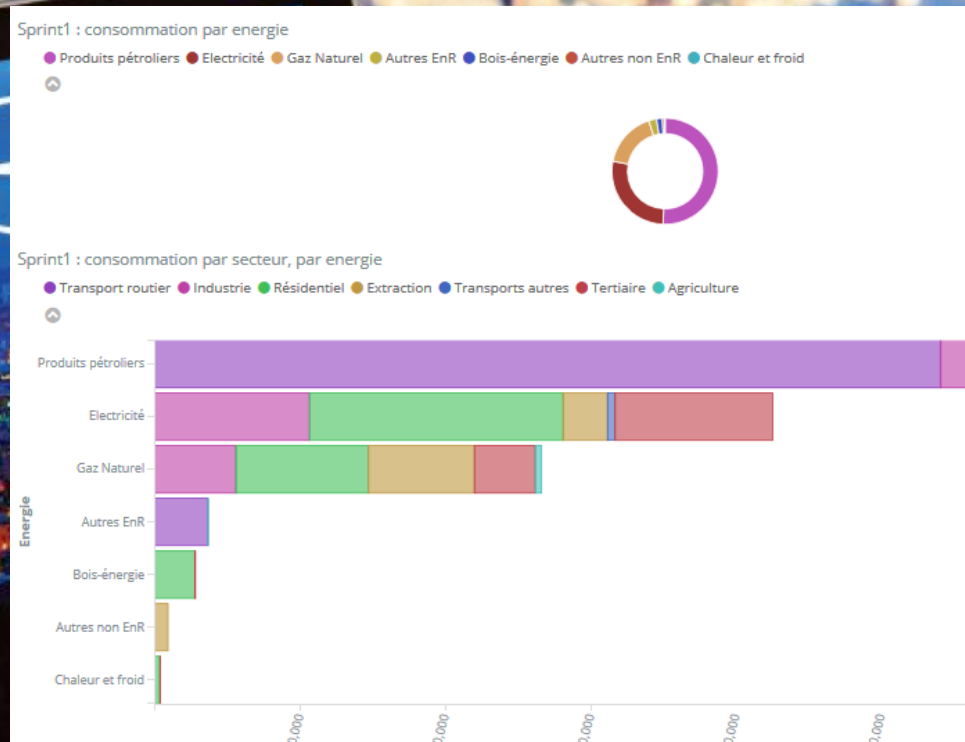
- A platform demonstrator
- Six use cases
- A hackathon
- Source codes and documentation in common digital good (open)

FOCUS ON FLEXGRID DATA R&D PROJECT OUTPUTS AT THIS STAGE

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

First R&D project driven by the regional council.
Concrete acceleration of enery datasets opend throught out DataSud = Over 6o datasets opened thanks to / for use cases.
A demonsrator accessible online.
First use case accessible online : a territorial energetic dashboard allowing to analyze and compare the energy consumption and production of a territory using Big Data tools.





FINALLY ?
MOVING FROM OPEN TO SMART DATA !

RÉGION SUD PROVENCE ALPES CÔTE D'AZUR

Hybrid platforms with public, private, closed and open data (Datasud).	Strong public and private data partnerships, shared governance	Mutalization, sovereign of infrastructures, shared governance.	« Grey or hybrid data » *
Web services IN/OUT. Hot or Real time data, standardization…	Embracing IOT & SmartCity issues.	Research and Development data projects	Financing concrete projects (22) to enhance « data literacy »

* Each use case we are addressing with our projects conduct to te creation of one or more new hybrid dataset with multiple owners and licences issues.

NEXT IMPACTS OF DATA IN THE PUBLIC SPHERE

Public-private innovation: the public actor as trusted third party to experiment. (R & D contracts, PPP …)

Citizen partnerships: to confront its data with the citizen knowledge to reinforce it, to increase it.

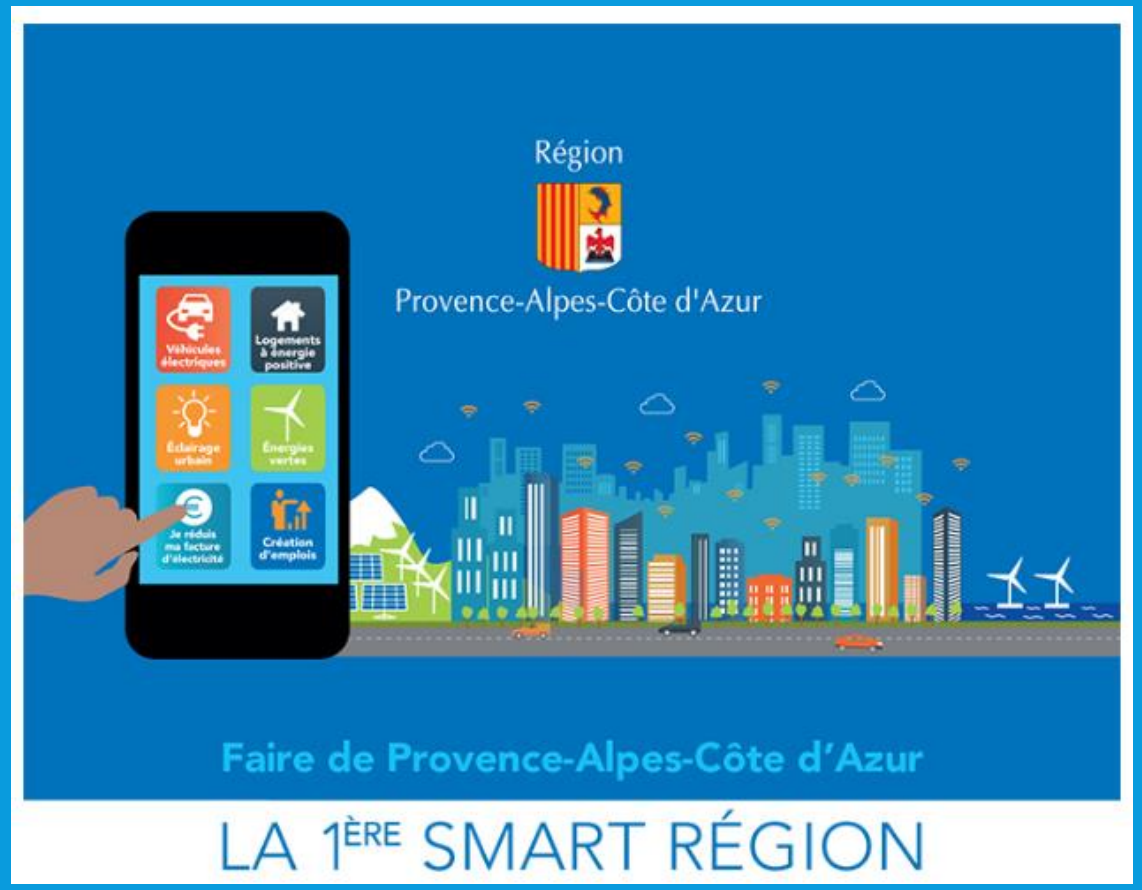
Strengthen initiatives of digital platforms (data) to produce new services (= state and territories platforms).

Negotiate reference data that are no longer the exclusive public: example Waze: 4 mns in advance by accident / Energies …

Continue to protect the citizen: French and European legislative framework (RGPD, INSPIRE)

What role does the public actor play in the challenges of data? Ensure a fair value capture between GAFAMs, SMEs and territories (Open Data is the best example / Transports)

THANK YOU ! DEBATE



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