

The Environmental Information Network of Andalusia (Spain)

Regional Ministry of Environment and Spatial Planning
Government of Andalusia (Spain)

Environmental Information Network of Andalusia (REDIAM)



Andalusia's extension covers a total of 87,597 km², representing 17.3% of the Spanish national territory

It is one of the largest regions in the EU, with a surface greater than Netherlands, Austria, Belgium, Denmark or Ireland!

Biodiversity Hot Spot on a EU Level

	Member Country	Total Area (km ²)
	<i>Europa</i>	10.530.751
	 Unión Europea	4.422.773
1	 France	547.030
2	 Spain	504.782
3	 Sweden	449.964
4	 Germany	357.021
5	 Finland	338.145
6	 Poland	312.685
7	 Italy	301.230
8	 United Kingdom	244.820
9	 Romania	237.500
10	 Greece	131.940
11	 Bulgaria	110.910
12	 Hungary	93.030
13	 Portugal	92.391
	 Andalusia	87.597
14	 Austria	83.870
15	 Czech Republic	78.866
16	 Ireland	70.280
17	 Lithuania	65.200
18	 Latvia	64.589
19	 Croatia	56.594
20	 Slovakia	48.845
21	 Estonia	45.226
22	 Denmark	43.094
23	 Netherlands	41.526
24	 Belgium	30.528
25	 Slovenia	20.273
26	 Cyprus	9.250
27	 Luxembourg	2.586
28	 Malta	316

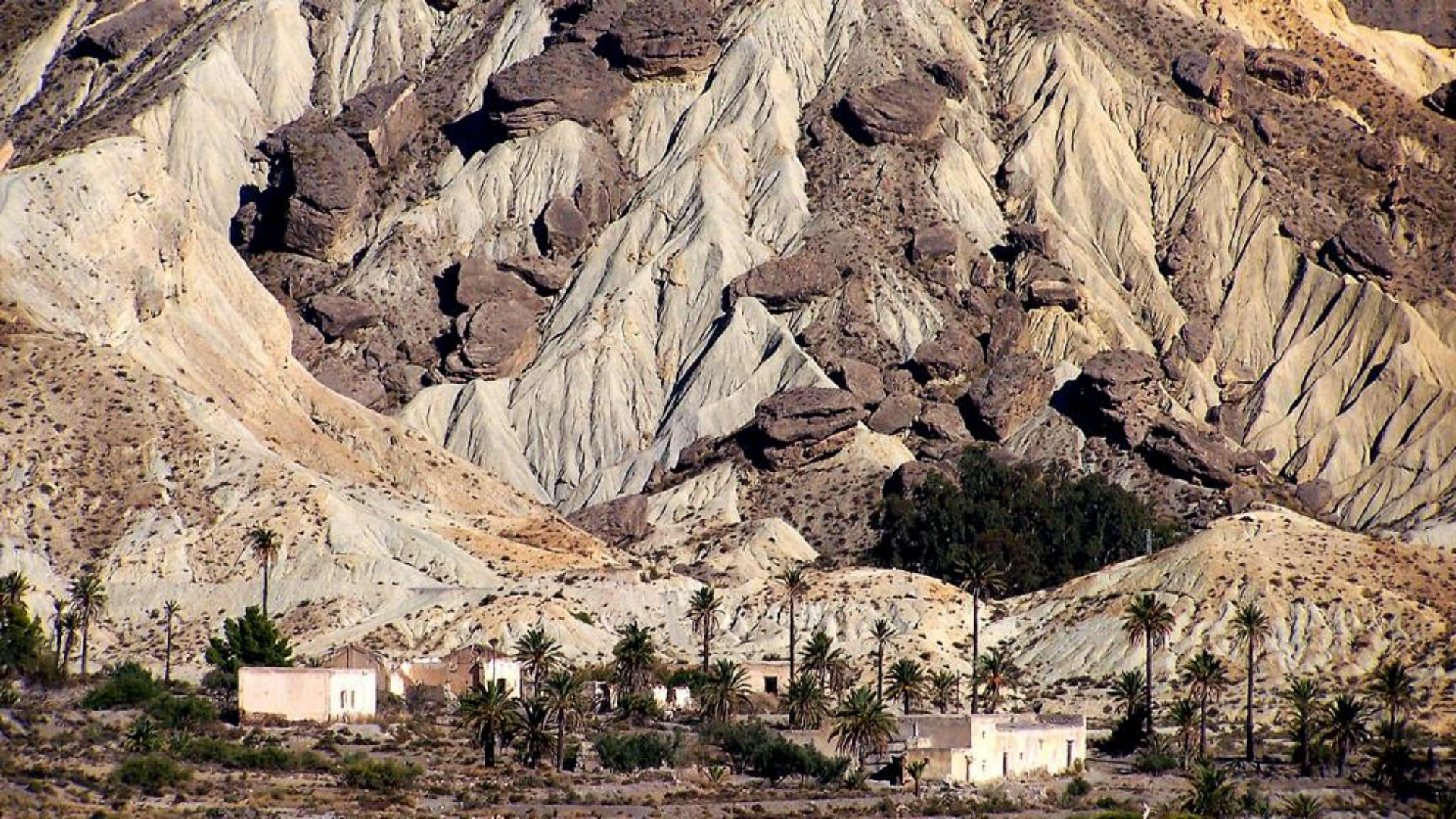
*Andalusia, land
of contrasts*





















































An Environmental Information System for Andalusia

Social Environmental Awareness

Vast, diverse and complex territory

Threats to fragile ecosystems

Wide environmental regional responsibilities in management and planification of natural resources.

Need of the best available environmental information



Since the 80's the Regional Ministry of Environment has worked on generating, compiling, standardizing and analyzing environmental information, using ICT (computing, GIS, Remote Sensing, web services, etc...)

¿What is REDIAM?



Rediam



Information



Knowledge



...and what is it used for?



Shared Environmental Information System based on ICT (e-Infraestructure)

Basic principles

- ✓ Environmental MANAGEMENT is the best source of information
- ✓ DISTRIBUTED System: Whom produces, integrates and maintains.
- ✓ To serve as a SINGLE information catalogue for all users
- ✓ Exchange of information based on interoperable services
- ✓ Open access to information
- ✓ Information Infrastructure based on ICT
- ✓ Needs a Core Team

How does REDIAM work?



Rediam ●●●

The pillars of the REDIAM

LEGAL FRAMEWORK

MEMBERS

Rediam ●●●

TECHNICAL
RESOURCES

INFORMATION

WORKFORCE



JUNTA DE ANDALUCÍA

CONSEJERÍA DE MEDIO AMBIENTE Y ORDENACIÓN DEL TERRITORIO

LEGAL FRAMEWORK:

- European Directives
- National and Regional Laws
- Internal procedures

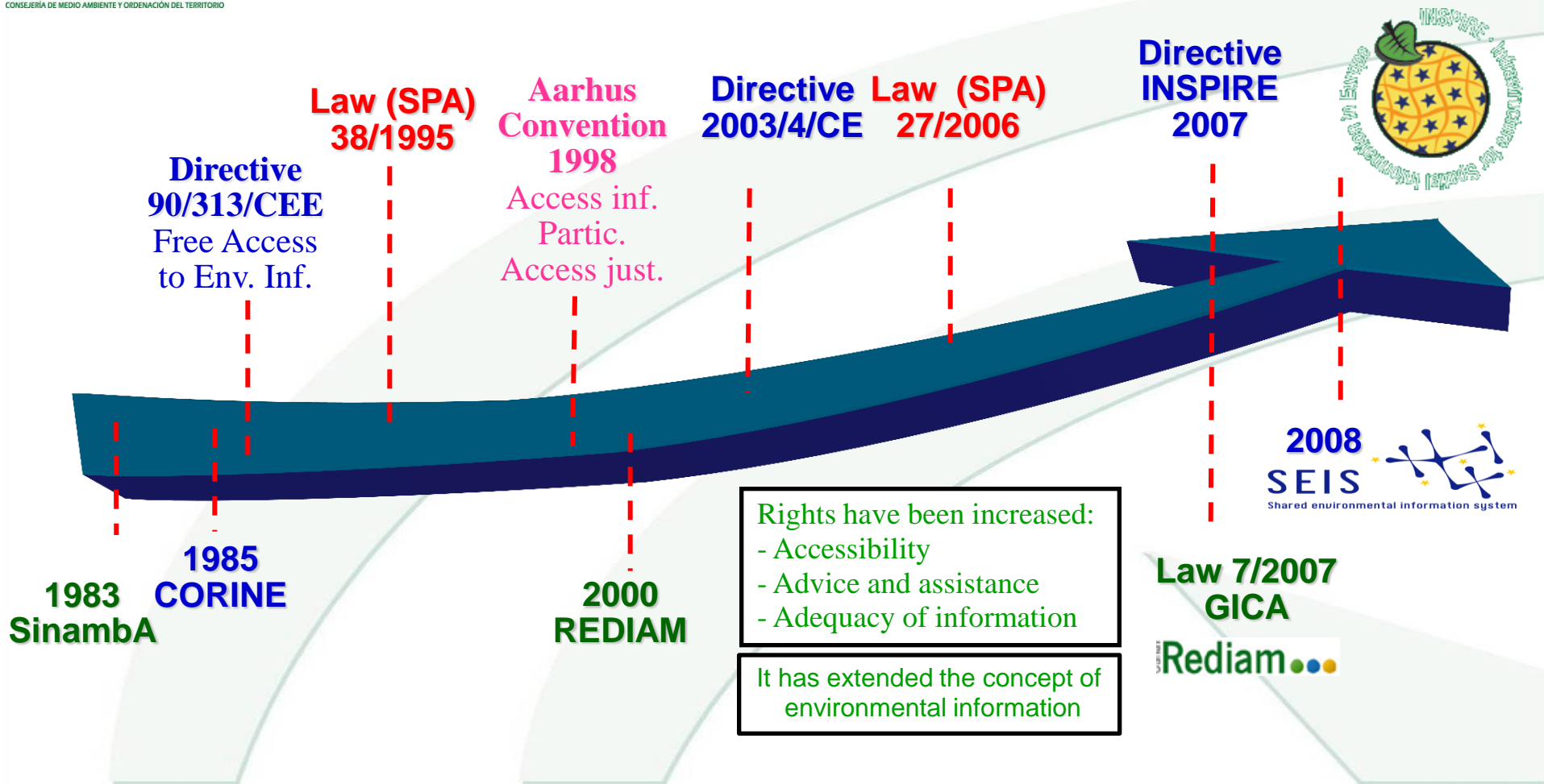
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Legal framework evolution



LEGAL FRAMEWORK:

- European Directives
- National and Regional Laws

MEMBERS

- Regional Government of Andalusia
- Associated institutions
- Users: General Public

Rediam ●●●

REDIAM: A network of environmental data providers & users

More than 150 producer, user and disseminator entities of environmental information of Andalusia

Universities, Research Centers,
Associations, Companies, Public
Bodies, etc...



LEGAL FRAMEWORK:

- European Directives
- National and Regional Laws

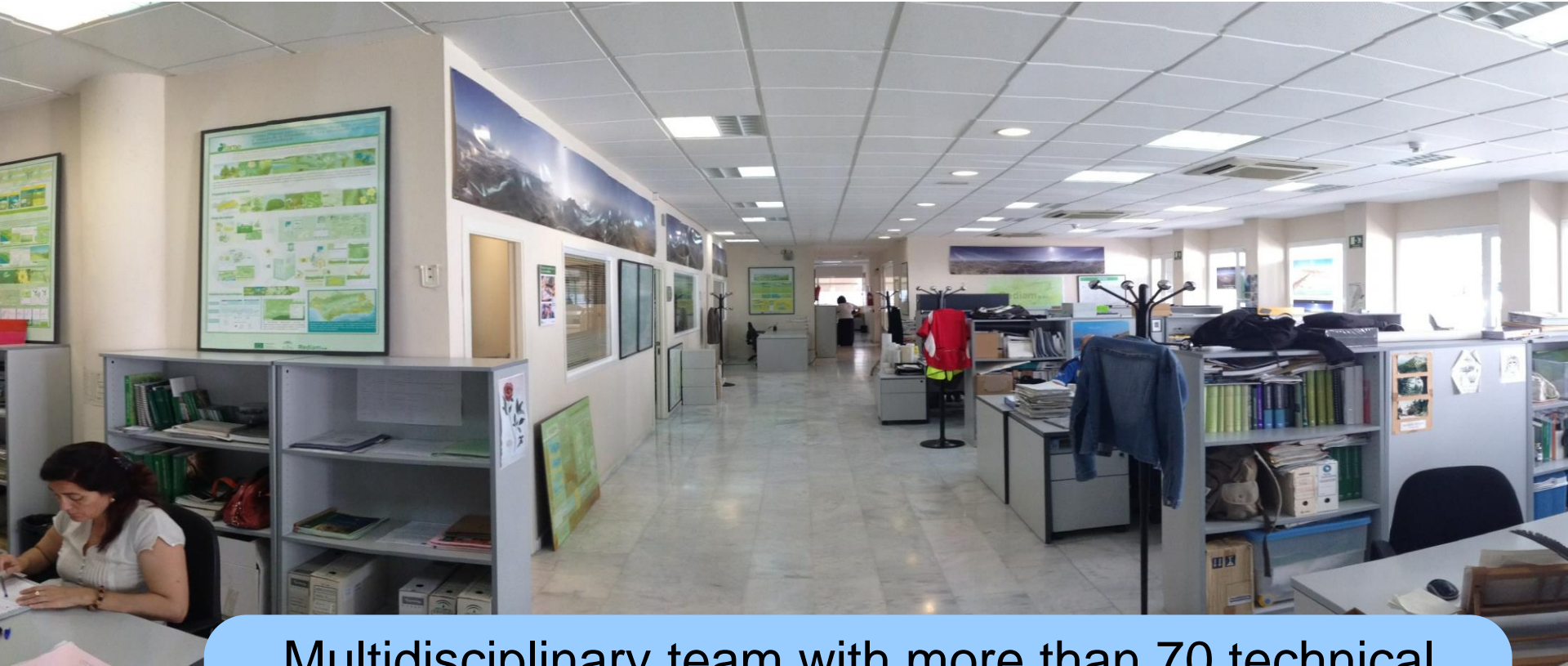
MEMBERS

- Regional Government of Andalusia
- Associated institutions:
Over 150 organizations
- Users: General Public

Rediam ●●●

WORKFORCE

- Public Employees dedicated to environmental management
- Core-Team



Multidisciplinary team with more than 70 technical experts in information systems, cartography, statistics, remote sensing, computer systems, dissemination, and different environmental topics



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Which Information?

climate soil vegetation pollution water uses
geology cartography land uses covers
infrastructures coastline wildfires culture floods
sportsfishing fauna flora natural areas habitats
plans geomorphology landscape geodiversity...

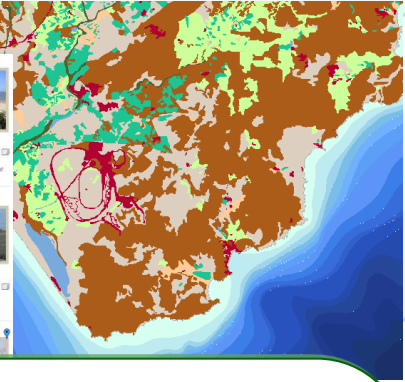
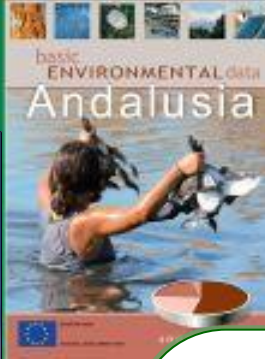


Which Formats?

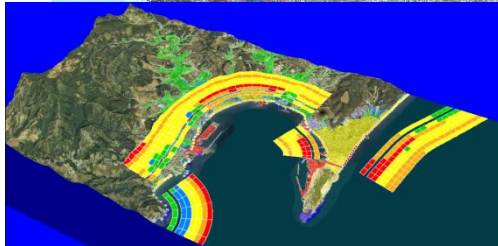
Consejería de Medio Ambiente

Red de Vigilancia y Control de la Calidad de las Aguas Litorales en Andalucía
Informe de la Red Automática de Inmisión

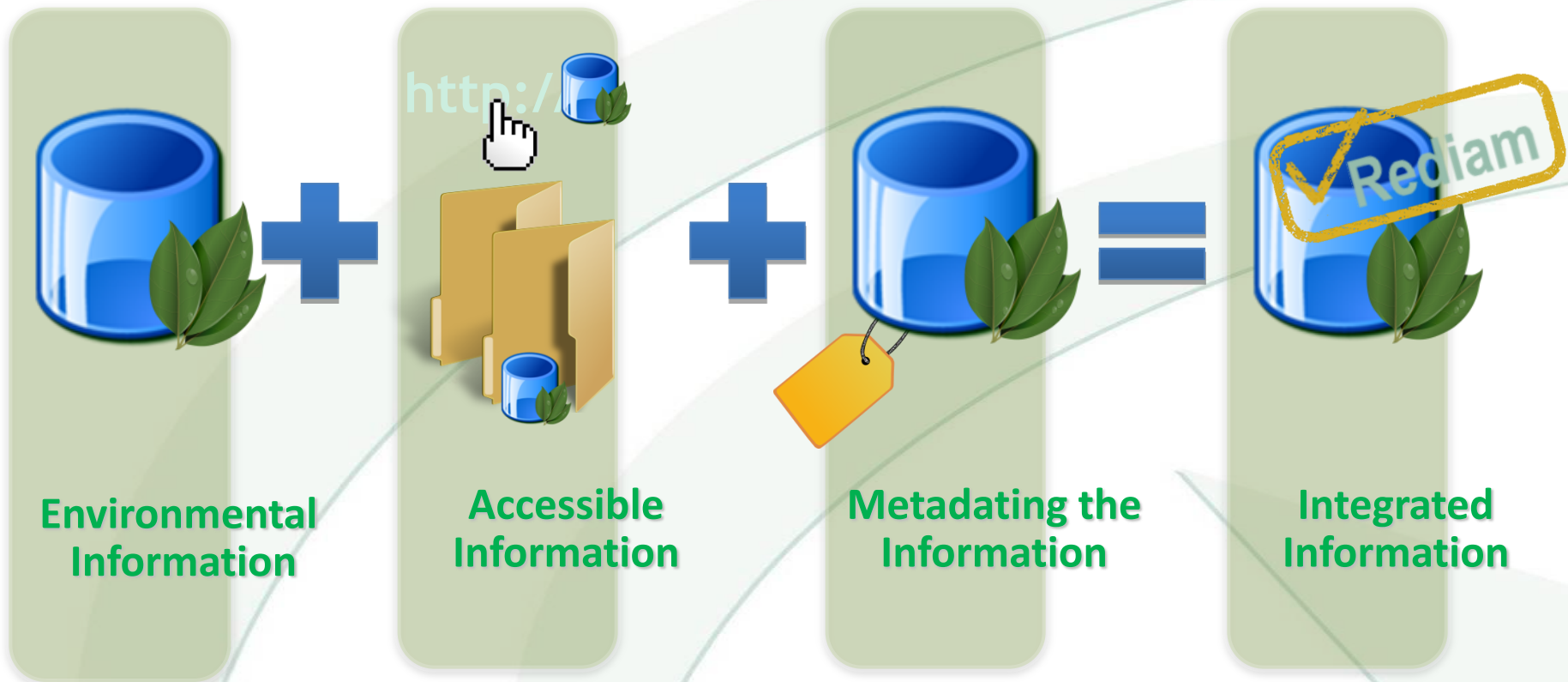
Informe 1998
Medio Ambiente
en Andalucía



reports studies photographs orthophotos
satellite images cartography
maps models databases planning &
programs, statistics, indicators
applications Spatial data



What can be labeled as information integrated into the REDIAM?





Rediam



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TECHNICAL RESOURCES

- Spatial Data Infraestructure, SDI
- Repository
- Web channel

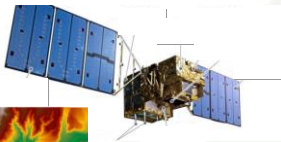
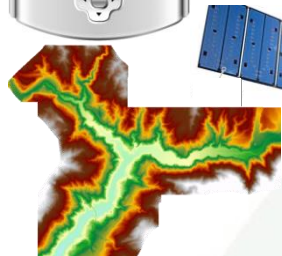
INFORMATION

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TECHNOLOGY: A REVOLUTION IN INFORMATION MANAGEMENT... FROM ITS GENERATION TO ITS DISSEMINATION

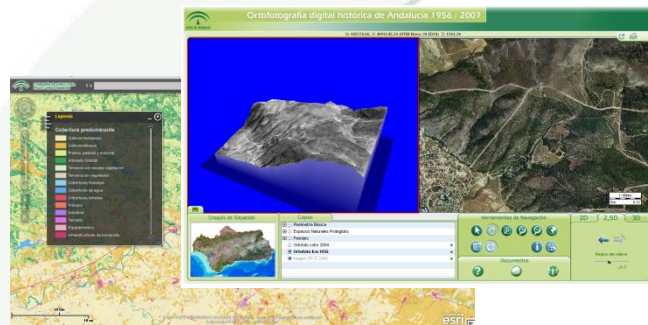
CAPTURING AND GENERATING



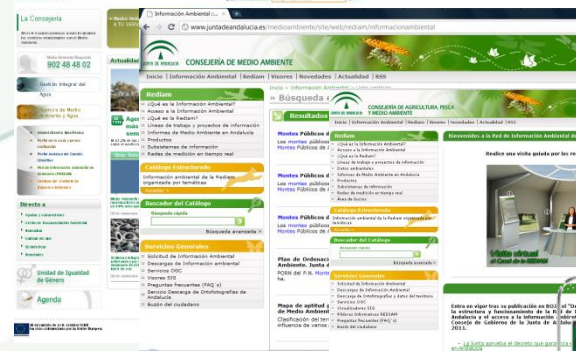
STORING AND MANAGING



OPERATION AND ANALYSIS



ACCESS AND DISSEMINATION



EXCHANGE AND INTEROPERABILITY

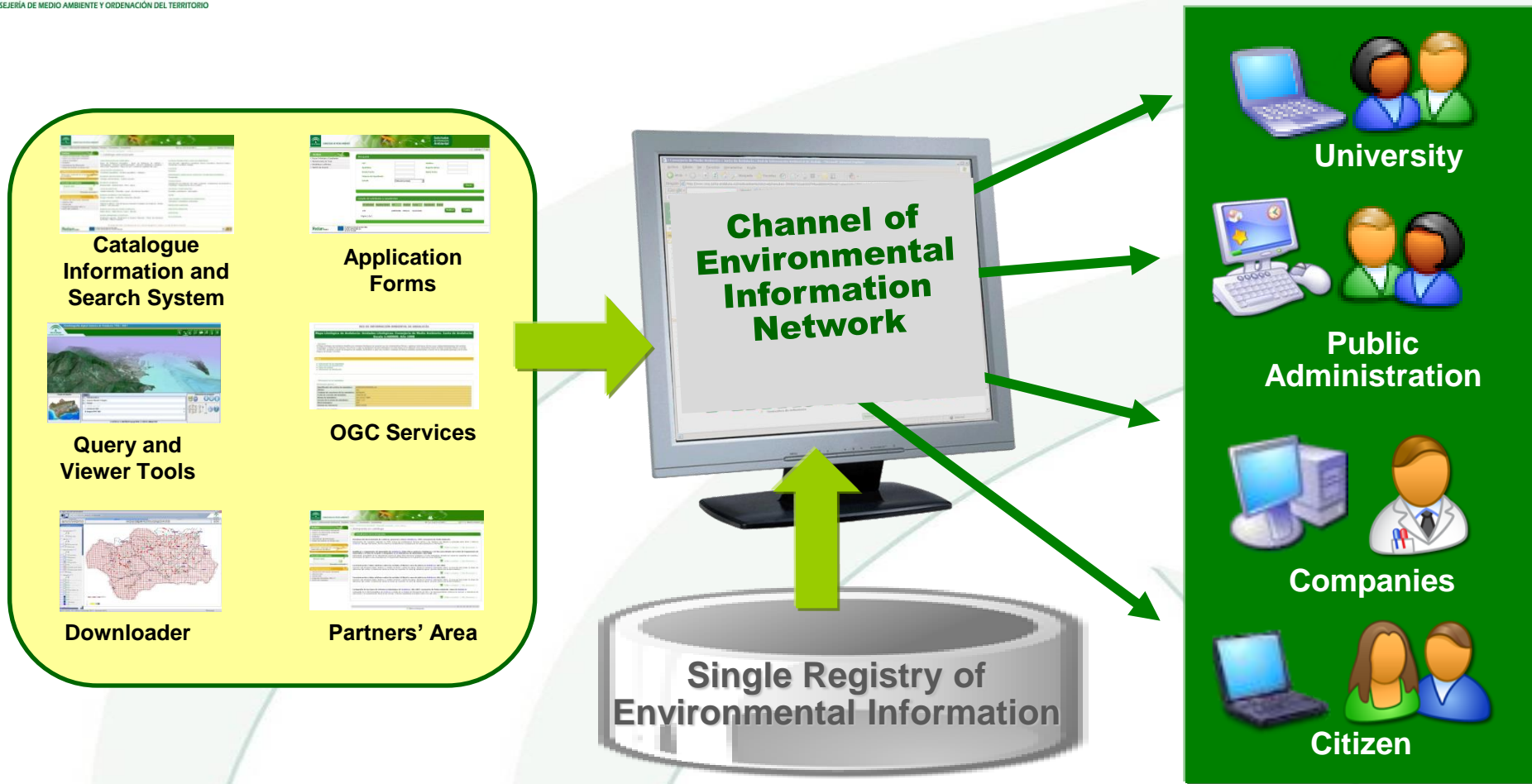




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REDIAM Channel: much more than a Geoportal





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CONSEJERÍA DE MEDIO AMBIENTE Y ORDENACIÓN DEL TERRITORIO

Production, standardizing and dissemination all in REDIAM!!

Climate

Water

Geology

Environmental Quality, Etc.

Topics



Junta de Andalucía
Associations
Companies
Universities

AGE

Local admins.



Producers

Garthering



Standardizing

Storage



Dissemination

Added value

Dissemination and use





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**Muchas gracias! -
Thank you very much!**

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www.juntadeandalucia.es/medioambiente/