SUSTAINABLE DEVELOPMENT AND ADAPTATION TO CLIMATE CHANGE STRATEGIES IN SARDINIA REGION

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Cagliari, 24_10_2023

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The regional sustainable development strategy

The regional strategy of adaptation to CC

How strategies work togheter

GPP and sustainability education

MEGATREND

1 2 3 4

cc risources biodiversity demografy

The world today is characterized by 4 megatrends: climate change, scarcity of resources, which are not enough for the entire population at the current rate of growth, population growth and the loss of biodiversity of species animals, plants and food.

REGIONAL SUSTAINABLE DEVELOPMENT STRATEGY & REGIONAL ADAPTATION STRATEGY

Why is it necessary to work on strategies? What are the emergencies?

"Today, as we welcome the eight billionth member of our growing human family, we must think about the future. Our world is facing the most crucial and precarious moment in generations. People are being affected by uncontrollable climate change. By 2050, the world's population will approach ten billion. The action or inaction of the G20 will determine whether every member of our human family can live sustainably and peacefully on a healthy planet."

Antonio Guterrez Secretary-General of the United Nations in his speech at the G20 in Bali (15/nov/2022).

We are well aware that emissions have reached high values, which are threatening the survival of mankind because they make the earth more difficult to inhabit. We have reached 420 parts per million of carbon dioxide emissions into the atmosphere.

THE TEMPERATURE OF THE SEA IS OUT OF THE AVERAGE OF THE PERIOD

Humanity is suspended today, like in a frozen image of a famous cartoon in which willy coyote stops in the air and understand that he is about to fall.

Pursuing a model of sustainable development is the task of large supranational organizations and governments.

But that's not enough.

In all the great cultural revolutions the task is distributed, by the regional and local Public Administrations, down to the individual citizens.

THE GLOBAL AGENDA FOR SUSTAINABLE DEVELOPMENT APPROVED BY THE UN 2030

In 2015, the United Nations asked each country to plan a strategy involving economic development, social inclusion and environmental sustainability, providing for an integrated action at local, national and international level.

The Global Agenda for Sustainable Development and the related 17 Sustainable Development Goals (SDGs) have been approved, divided into 169 goals (and more than 240 elementary statistical indicators) to be achieved by 2030.



Sustainable development is (also) an approach linked to a different vision of the now unbalanced relationship between economic activity and the natural world, in a finite system.

It is only through the design of new routes of environmental, social, economic, institutional and - ultimately - cultural sustainability that we will be able to enter the future that we want to build in order to survive all together. The secret is to keep everything in balance.



This is our logo, made up of 17 pantone colors from the sdgs. It is a sketchy map like the geographical maps of five hundreds years ago, which we hope will become a very detailed map of Sardinian sustainability in the coming years, thanks to the passionate work of new geographers that we have recruited in the region and in civil society.

The regional governance
3 different REGIONAL COMMITTEE RESOLUTION

DGR 64/23 del 28 dicembre 2018 DGR 64/46 del 18 dicembre 2020 DGR 39/66 del 8 ottobre 2021

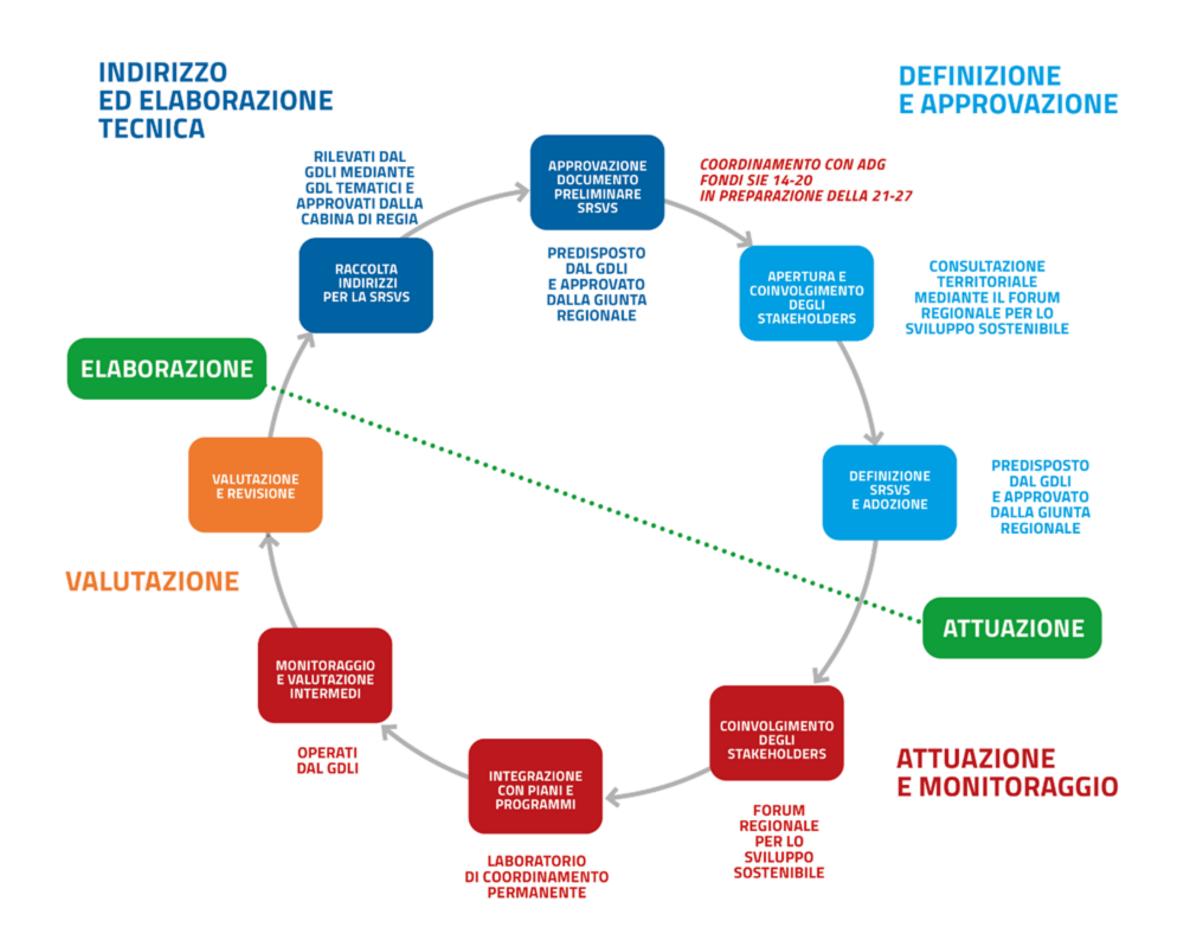
APPROVAL OCTOBER 2021

RESOLUTION n. 39/56 del 08 october 2021





Change management toward sustainable developement strategy (and adaptation strategy) The path of Regione Sardegna.



THE STRATEGY

SARDINIA2030 34

102

Themes

Strategic Goals

Action lines

Some numbers

SARDEGNA STRATEGIA 2030 REGIONALE 435

102

41

Actions

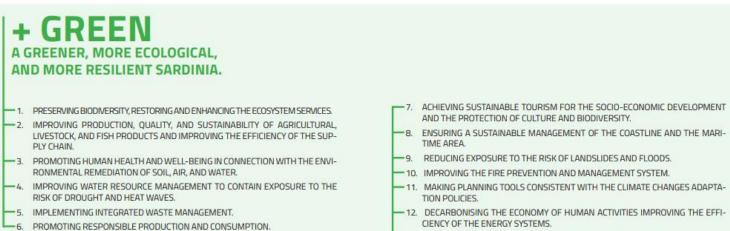
Indicators

Targets

An overview where the strategic themes are grouped into 5 main topics, in turn divided into lines of activity and actions

SARDEGNA2030: AN OVERALL VIEW









A MORE CONNECTED AND MORE ACCESSIBLE SARDINIA

- 1. IMPROVING ACCESSIBILITY TO SARDINIA AND ENSURING TERRITORIAL CON-
- REINFORCING PUBLIC AND PRIVATE SUSTAINABLE MOBILITY.
- -3. REDUCING THE ENVIRONMENTAL IMPACT AND IMPROVING THE SAFETY OF ROAD INFRASTRUCTURES.
- 4. STRENGTHENING DIGITAL CONNECTIVITY.







A MORE SOCIAL, MORE EDUCATED, AND MORE PROSPEROUS SARDINIA

- MENT AND PROMOTING OPPORTUNITIES OF SEL-F-EMPLOYMENT.
- 2. DEVELOPING WORK OPPORTUNITIES AND SERVICES FOR ENTERPRISES AND POPULATION IN RURAL AREAS TO ACHIEVE A WIDESPREAD WELL-BEING.
- 3. REDUCING SCHOOL DROPOUT AND DISPERSION AND PROMOTING THE RAISING OF YOUNG PEOPLE'S SKILLS.
- IMPROVING THE FUNCTIONALITY AND SAFETY OF SCHOOL BUILDINGS AND ENHANCING INNOVATION IN
- I. IMPROVING THE ACCESS TO HIGH-QUALITY EMPLOY- 5. ENSURING HEALTH CARE FOR ALL AND INCLUSIVE AC-CESS TO QUALITY HEALTH SERVICES.
 - 6. REDUCING THE GENRE GAP, PROMOTING ACTIVE INCLU-SION, EQUAL OPPORTUNITIES, AND EMPLOYABILITY.
 - PROMOTING SOCIAL INTEGRATION OF PEOPLE AT RISK OF POVERTY OR SOCIAL EXCLUSION.
 - 8. ENSURING HEALTHY AND APPROPRIATE WORKING
 - 9. ENHANCING, PRESERVING, AND ENSURING THE AVAI-LABILITY OF CULTURAL, IDENTITY, AND NATURAL AS-









IDENTITY, AND MORE WELCOMING SARDINIA.

- 1. IMPROVING GOVERNANCE FOR THE TERRITORIAL SUSTAINABLE DEVELOPMENT. - 2. COMMUNICATING, EDUCATING, AND RAISING AWARENESS OF SUSTAINABLE DEVELOPMENT.
- PROTECTING AND ENHANCING THE REGIONAL LANDSCAPE.
- 4. ENSURING LEGALITY AND JUSTICE.

13. DECARBONISING THE ECONOMY OF PRODUCTION ACTIVITIES.











THE SHARING OF INFORMATION IS NECESSARY FOR A CORRECT PLANNING OF EUROPEAN FUNDS IN TERMS OF SUSTAINABLE DEVELOPMENT.

The real interesting step - unique in Italy - was that the Region administration built the strategy together with the public process of planning European funds, through a process extended to both public and private stakeholders, up to individual citizens.

Regionale comittee resolution n. 39/56 del 08 ottobre 2021

Sustainable development is a very precise system for measuring the performance of a public administration. The strategy has as an attachment a report on the positioning of Sardinia with respect to the other italian and european regions.



Regione Autonoma della Sardegna Strategia Regionale Sviluppo Sostenibile (SRSvS)

Report di posizionamento Obiettivi di Sviluppo Sostenibile Agenda 2030 ONU



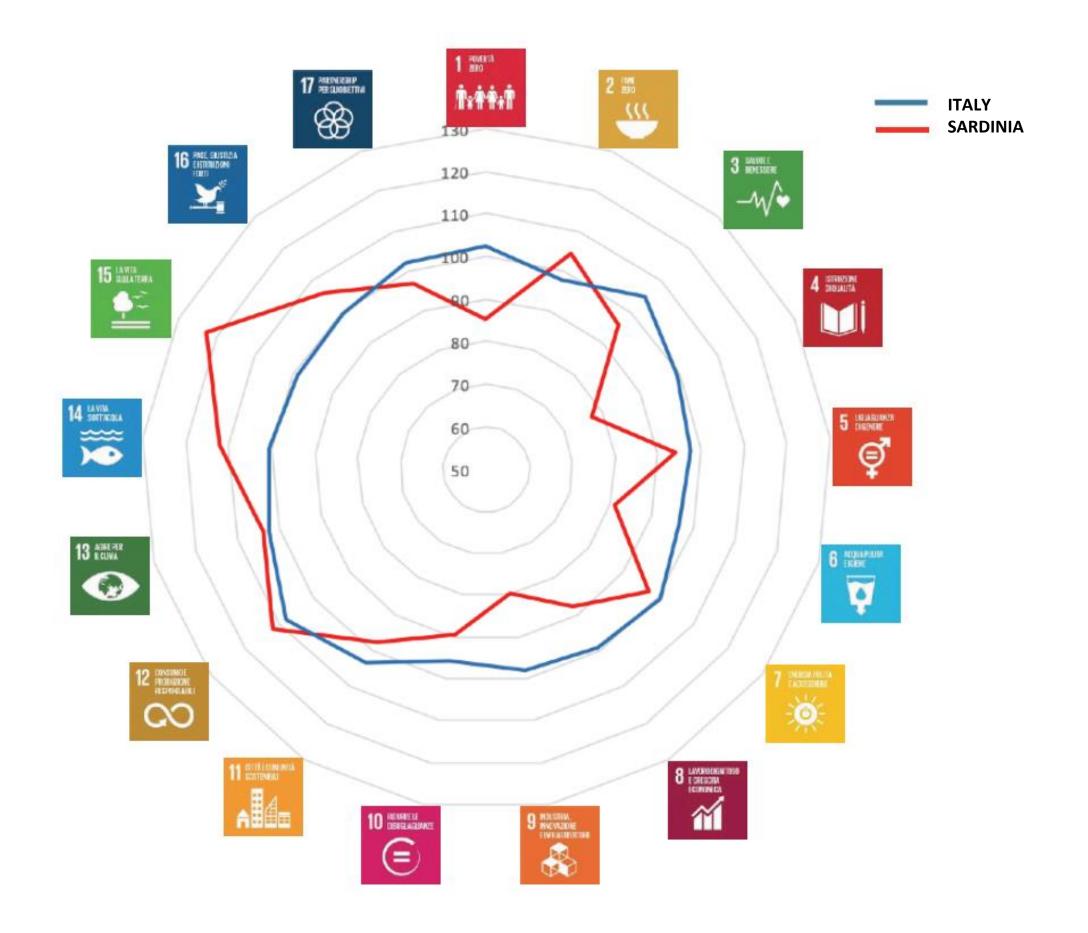






Confronto tra indicatori compositi nazionali e regionali - Anno 2018 (100 = performance Italia 2010)

HOW IS THE REGION OF SARDINIA POSITIONED COMPARED TO OTHER ITALIAN AND EUROPEAN REGIONS IN ACHIEVING THE SUSTAINABLE DEVELOPMENT GOALS



MATRICE DEGLI INDICATORI E DEI TARGET PER SARDEGNA 2030

OBIETTIVI STRATEGICI	INDICATORI	DATO ATTUALE	TARGET PER IL 2030	FONTE
Rafforzare l'efficienza amministrativa e il dialogo tra istituzioni, cittadini e sta- keholders attraverso l'Innova- zione della PA	Grado di utilizzo dell'e-procurement nella PA	37,7% (2018)		OpenCoesione
Facilitare i processi di innovazione organizzativi e di prodotto sostenibili e competitivi nelle imprese	Imprese con attività innova- tive di prodotto e/o processo (per 100 imprese)	24,1% (2018)	38,1% (media nazionale)	Istat
	Lavoratori della conoscenza	16,5% (2019)	17,6% (media nazionale) (il best performer ha un valore di 22,8%)	Istat
	Imprese con almeno 10 ad- detti che hanno un sito Web/ home page o almeno una pagina su Internet	55,1% (2019)		Istat
	Certificazioni ambientali e sociali	14% (2019)		Accredia
Favorire la connessione fra imprese, centri di ricerca, università e istituti di istruzione superiore	Intensità di ricerca	0,8% (2019)	1,37% (media nazionale)	Istat
	Ricercatori (in equivalente tempo pieno)	12,8% (2018)	23,2% (media nazionale)	Istat
Migliorare l'accessibilità digitale e rafforzare l'offerta di servizi pubblici forniti in modalità digitale	Competenze digitali	23% (2019)	28,3% (best performer italiano)	Istat
	Uso di Internet	70,3% (2019)	75,1% (best performer italiano)	Istat
	Grado di partecipazione dei cittadini attraverso il web a attività politiche e sociali	15,3% (2019)		OpenCoesione
	Utilizzo dell'e-government da parte delle imprese	93,6% (2020)		OpenCoesione

MATRICE DI CORRELAZIONE

IA NAZIONALE, PROGRAMMAZIONE UE FSE+ E FESR E PROGRAMMA REGIONALE DI SVILUPPO

Obiettivi strategici

S cares 1. Rafforzare l'efficienza amministrativa e il î dialogo tra istituzioni, cittadini e stakeholders attraverso l'Innovazio-

1.1 Semplificazione del linguaggio e delle procedure anche attraverso la digitalizzazione

ne della PA

- 1.2 Accrescimento delle competenze della PA
- 1.3 Introduzione di politiche integrate attraverso modalità collaborative ed omogenee nel design di politiche e servizi digitali
- 1.4 Accrescimento della capacità di misurazione, monitoraggio e valutazione dell'impatto delle politiche regionali

AGENDA SNSvS Area, Scelta, 2030 Obiettivo strategico Goal

16 MAT

la democrazia

alle disuguaglianze

DI SOSTENIBILITÀ

I.Conoscenza comune 1.4 Sviluppare un sistema integrato delle conoscenze per formulare e valutare le politiche di sviluppo II. Monitoraggio e valutazione

Governance, diritti e lotta

I.1 Rafforzare il buon governo e

di politiche, piani, progetti II.1 Assicurare la definizione, la realizzazione e l'alimentazione di sistemi integrati per il politiche, piani e progetti V. Efficienza della pubblica amministrazione e gestione delle risorse finanziarie

pubbliche V.2. Assicurare la semplificazione e la qualità della regolazione V.3 Assicurare l'efficienza e la sostenibilità nell'uso delle risorse finanziarie pubbliche

UE FESR E FSE+ 2021-2027 Obiettivi specifici

FESR

OS 1 - i) Sviluppare e Rafforzare la capacità di ricerca e innovazione e l'introduzione di tecnologie avanzate

OS 1 - ii) Permettere ai cittadini, alle imprese, alle organizzazioni di ricerca e agli enti pubblici di cogliere i vantaggi della digitalizzazione

OS 1 - iv) Sviluppare le competenze per la specializzazione intelligente, la transizione industriale e l'imprenditorialità

FSE+

OS II) Modernizzare le istituzioni e i servizi del mercato del lavoro per valutare e anticipare le esigenze in termini di competenze e garantire un'assistenza e un sostegno tempemonitoraggio e la valutazione di stivi e su misura nel contesto dell'incontro della domanda e dell'offerta, delle transizioni e della mobilità nel mercato del lavoro

PRS 2020-2024 identità macroprogetti

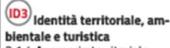


ID1 Identità politica-istituzionale 1.2 Semplificazione



ID2 Identità economica

2.8 Digitalizzazione delle procedure di selezione dei beneficiari per l'accesso alle procedure di sostegno



3.1.4 Approccio territoriale

For each objective and for each line of intervention, the strategy has:

- identified the context indicators, which we will use for periodic monitoring of the Strategy;
- defined the targets to be pursued and achieved by 2030;
- made explicit the pertinent references in the EU programming and the regional development program for an overall and unitary vision.

FIRST GOAL

The Sustainable Development Strategy manages complexity and is a PROCESS, NOT PRODUCT

SECOND GOAL

To represent the second objective of the region, you could think to the Romanesco Cauliflower, a figure that contains an internal homothety, and some fractals that represent the modality of how a strategy can repeat itself from the infinitely large to the small, repeating a modality of application of sustainability that starts from the global level, reaches the national level, then the regional level and still down to the municipalities and companies. The same approach to complexity that repeats itself at different levels.

MORE THAN 100 PEOPLE FROM THE ADMINISTRATION OF SARDINIA REGION ARE PARTICIPATING IN THE CONSTRUCTION WORKS OF THE SUSTAINABLE DEVELOPMENT STRATEGY

More than 3300 presences during the 15 public meetings belonging to all civil society

Questions we asked ourselves
Who does social mediation?
How can a PA do social mediation?
Who is part of the networks?
How do you intercept the last ones?

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COSTRUIAMO INSIEME SARDEGNA2030



- TAVOLI REGIONALI E TERRITORIALI
- LABORATORI TEMATICI

PARTECIPA AGLI EVENTI ONLINE

ISCRIVITI SU WWW.REGIONE.SARDEGNA.IT

Prende il via il processo di coinvolgimento degli Enti Pubblici, delle imprese, del terzo settore e della società civile per la costruzione della Strategia Regionale per lo Sviluppo Sostenibile, che integri la tutela dell'ambiente, l'inclusione, lo sviluppo e l'innovazione economica e sociale, in connessione col processo di programmazione dei fondi europei 2021-2027.

IL TUO CONTRIBUTO È IMPORTANTE. ISCRIVITI E PARTECIPA.



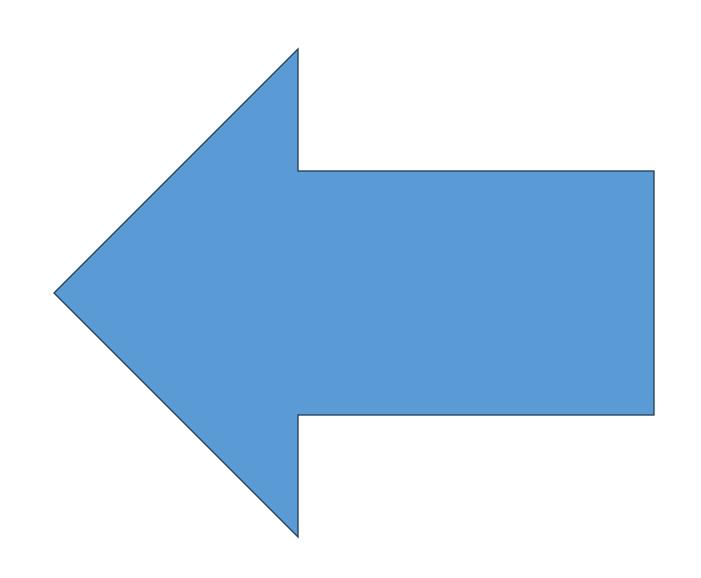








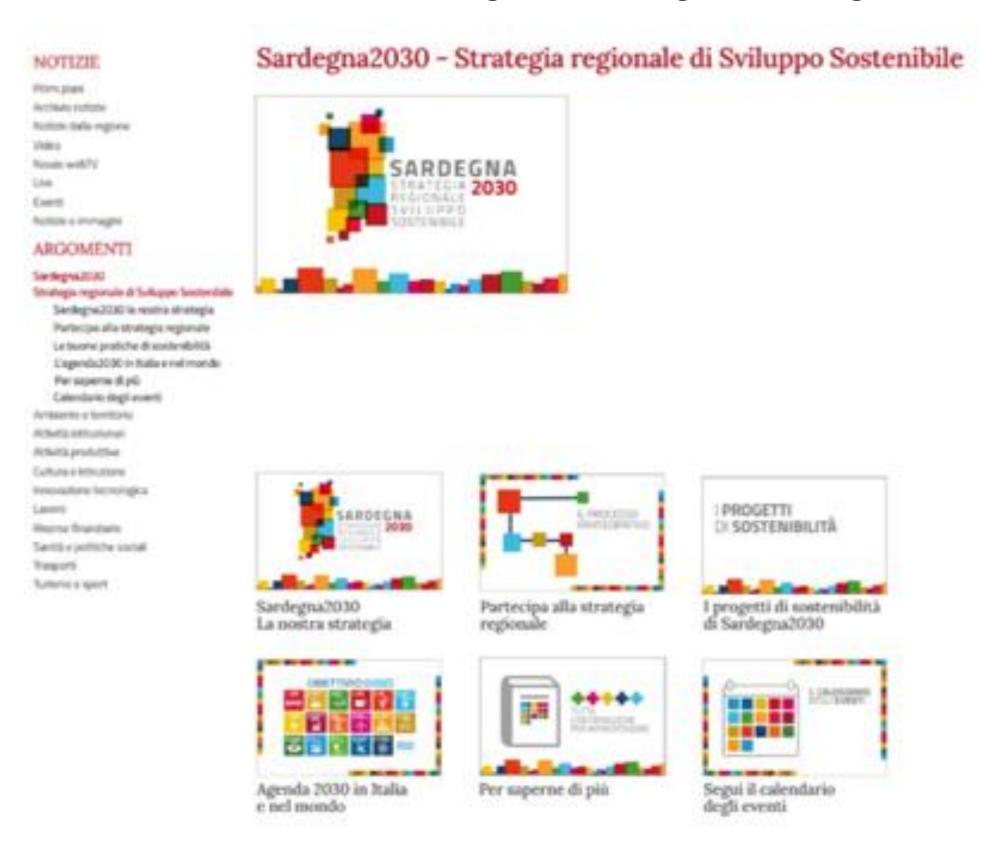
This is an example of our communication, of the posters that we have hung and distributed throughout Sardinia: a call to participation.



SARDINIA REGIONAL ADMINISISTRATION HAS GIVEN A DIRECTION NOW WE ARE IMPLEMENTING THE STRATEGY

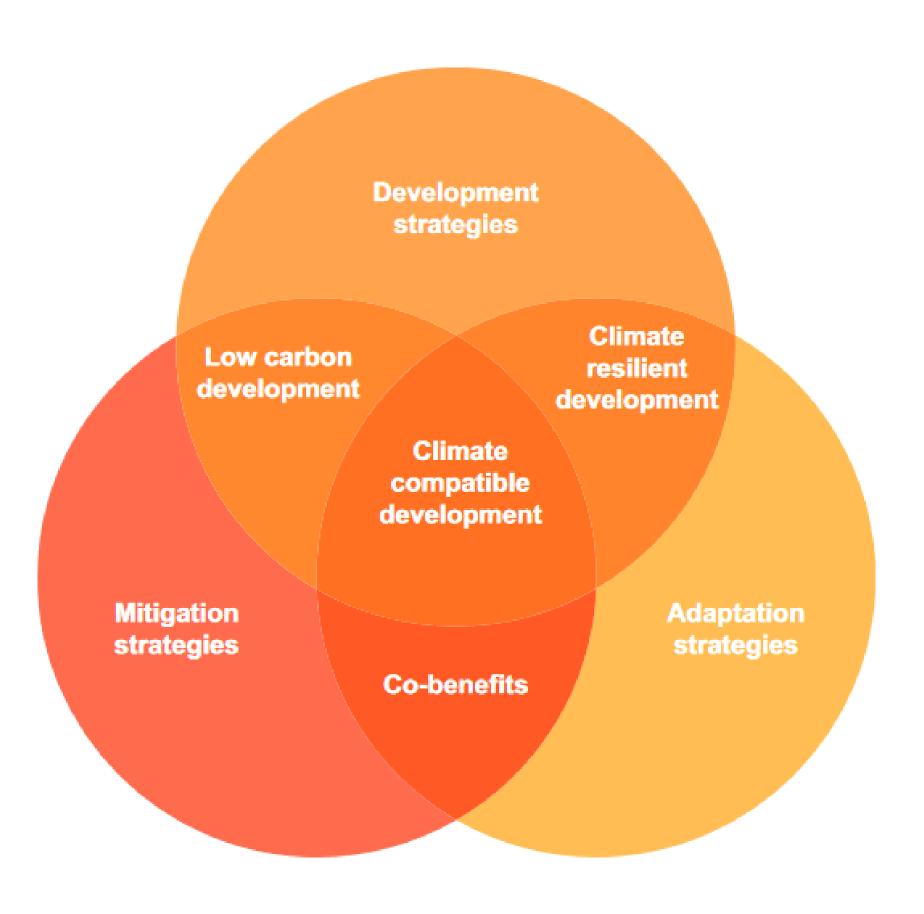
We are only at the beginning, we have indicated the direction but the real work begins now to implement the concepts of the strategy.

EMAIL INFO: sardegna2030@regione.sardegna.it



Find everything on the Region's website, with videos and materials in Italian and English.

CLIMATICALLY COMPATIBLE DEVELOPMENT



Fonte: Mitchell & Maxwell, 2010

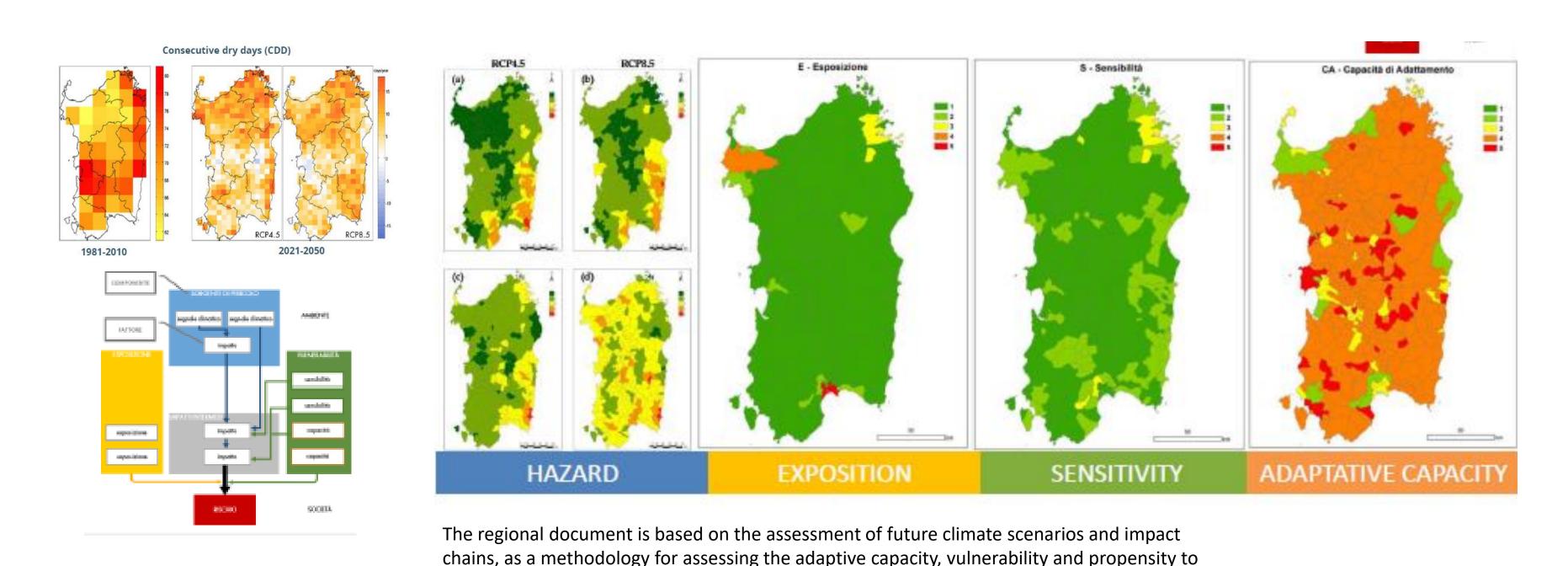
Currently there is a National Adaptation Strategy (SNAC) that defines specific actions and priority criteria.

Also we have since 2019 a regional adaptation strategy, approoved with a regional resolution, that should provide a comprehensive framework for all regional stakeholders (public and private) in order to assess the implications of adaptation to climate change in the various sectors concerned.

The process of building the regional strategy starts (born) from a European life project, called MASTER ADAPT, with a partnership of excellence. Through the project, which started in 2015 and ended in 2018, we learned a new trade (before we did not deal with adaptation to climate change).

Mainstreaming climate change strategies and actions within regional and local sectorial planning

Evaluation of future climate scenarios and impact chains, as a methodology for evaluating the adaptive capacity, vulnerability and propensity to climate risk of territories and communities



climate risk of territories and communities

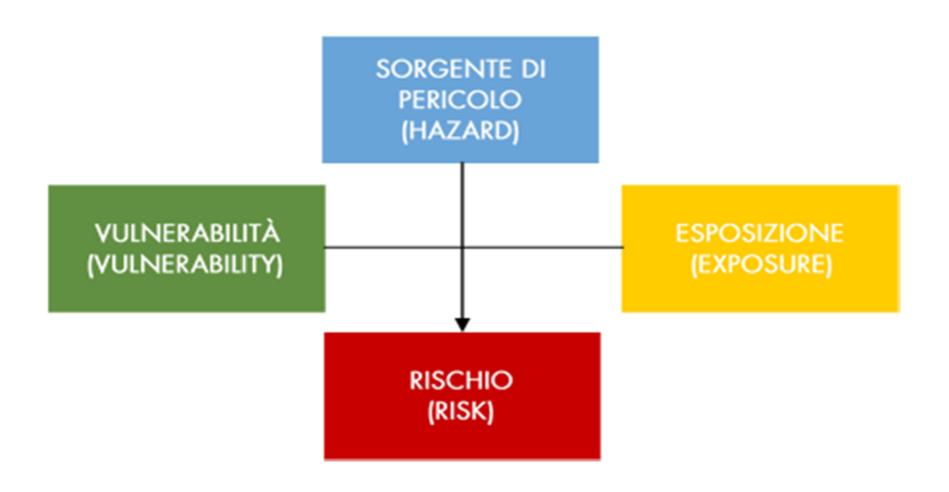
NOW THERE IS A SARDINIA CLIMATE FRAMEWORK (RAINFALL AND TEMPERATURES) TO 2050

In order to define a general method, it was necessary to investigate some key sectors

- the agro-forestry sector
- the water sector
- hydrogeological risks of the territory

Specific Impact Chains have been developed by regional administration and University of Sassari for the territory, for the single phenomenon analyzed and the relevant sector.

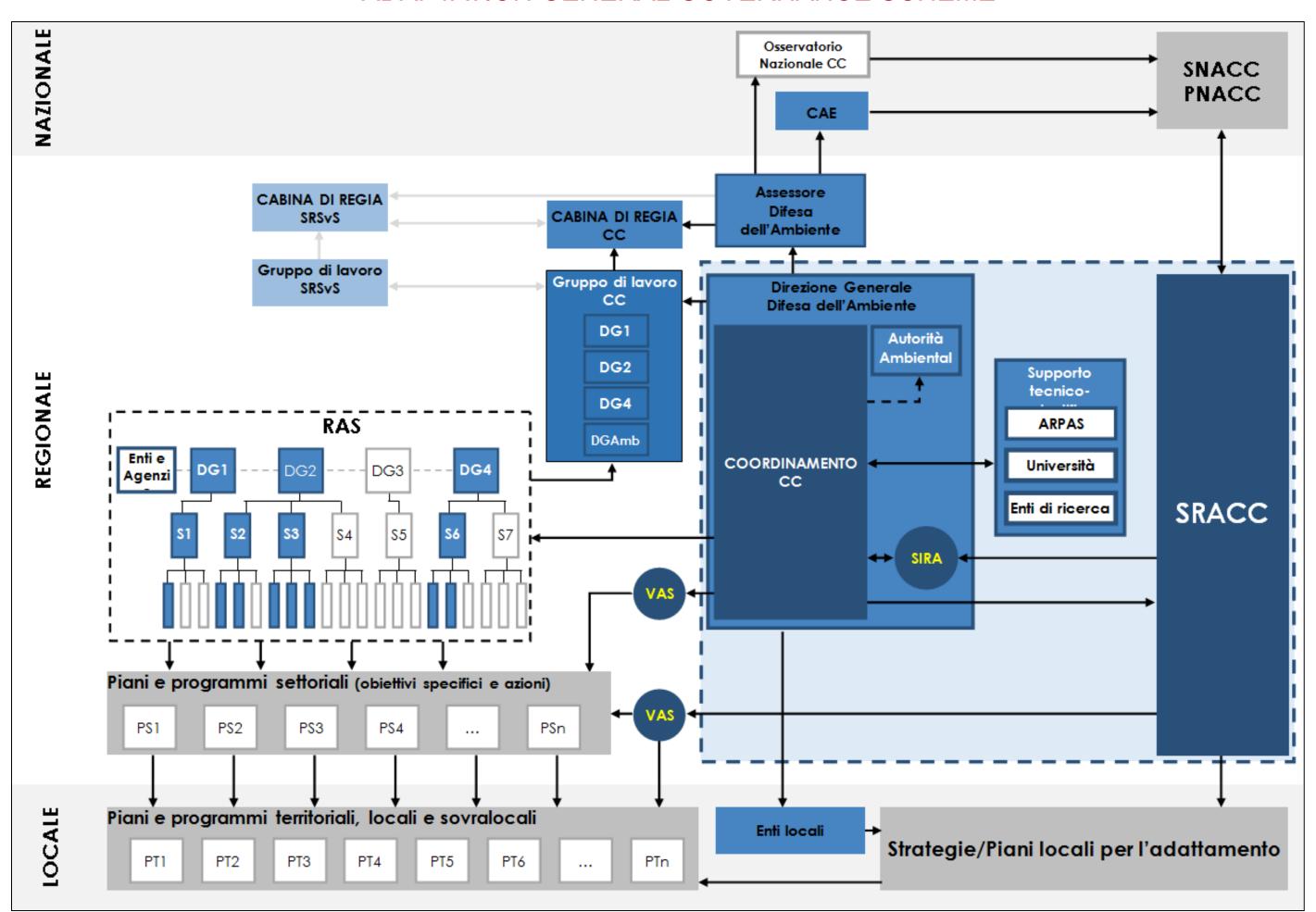
An impact chain is an analytical tool that helps to deepen, describe and evaluate the factors that drive vulnerability and / or risk appetite in the system of interest.



STRUTTURA GENERALE DELLA CATENA DI IMPATTO (IPCC 2014 b)

ADAPTATION GENERAL GOVERNANCE SCHEME

A complex and effective adaptation governance system capable of managing multi-stakeholder and multi-level relationships in regional, sectoral and territorial policies: "climate control room"; "inter-stakeholder working table"...



GOALS

Implement the adaptation to the CC in ordinary sectoral policies (plans, programs, programming acts, tenders and financing systems in general)

Implementation of environmental procedures (Strategic Environmental Assessment immediately and Environmental Impact Assessment subsequently) with a view to adaptation

NEW TOPICS

COAST AND TRANSITION ENVIRONMENTS

(cliffs, beaches, lagoons, ponds)

URBAN DEVELOPMENT AND INFRASTRUCTURE

Processing complexity to anticipate the future

Something
About
Sardinian
Green Public
Procurement
(GPP)

GPP is an instrument (in recent years voluntary and compulsory today) for the introduction of ecological criteria in the purchase of goods and services in the Public Administration. Along the entire life cycle, goods and products with low environmental impact: reduce the use of natural resources, reduce the production of waste, reduce polluting emissions, reduce the dangers and environmental risks

Use the buying power to influence the market. A government or a private company can use their purchasing power to influence the market and thus trigger the process of changing the modes of production and consumption that is *conditio sine qua non* for the achievement of sustainable development. If the public administration uses this power, it makes green procurement (GPP) and stimulates innovation and competitiveness in enterprises.

GPP is one of the key issues, now and in the near future, in terms of sustainable development. It intercepts many objectives of the 2030 Agenda and is the perfect representation of how green purchasing brings together social (workers' rights), environmental and, of course, economic issues.

GPP is the tool for stimulating innovation.

Green purchasing.

The keys to open up the market.

The opportunity for dynamic companies to overcome the static ones and for the small companies to be competitive with the big.



PAPERS

Plan for the Ecological Public Procurement in Regione Sardegna

DGR n. 37/16 del 30 luglio 2009 REGIONAL COMMITTEE RESOLUTION

2009



The regional action plan: in Italy is the first programming experience in this regard at the regional level.

It provides a budget of € 3.200.000,00

Technical assistance: a boarding!

In the first 7 years in particular we activated a service of technical assistance for the implementation of green public procurement policy in Regione Sardegna, dedicated to the regional administration and local authorities and carried out by a consortium, winner of public tender.

Different activities has been implemented (informative seminars, workshops, technical focus groups)

(€ 634.796,25)

INTERNAL TRAINING/INFORMATION

Comparison

Update

Knowledge of new realities

Joint planning of course on GPP issues

EXTERNAL TRAINING/INFORMATION

Order of engineers Order of architects

(Framework agreement with professionals to carry out joint actions on GPP)

Municipalities technicians

Responsible for the proceedings

What e how to communicate

SARDINIA BUY GREEN

a comunication campaign aimed at a rising awareness of GPP





Reward good practices

The award is intended for organizations that stand out for the implementation of green public procurement.

A certification, such as for household electrical appliances, depending on the level of green purchases made.



We have thought of a sort of certification of excellence for the public administrations that best deal with green purchases, a bit like household appliances or washing machines.

We have replaced all the light fixtures of the public roads of the Municipalities of Sardinia with LED lamps. Those who fly over Sardinia today find it much darker than in past years, not because it is worse lit, but because it is better lit, with the lamps pointing correctly downwards and not upwards and towards every point as in the past.

Example: intervention in the AGRI-FOOD SECTOR

Collaboration with the agricultural department for:

Regional Observatory on catering in Sardinia

Cooperation with associations and regional agencies

Regional network of sustainable canteens

Regional Table for a comparison on catering

Nine out of ten purchases of goods and services for the operation of the region are made with GPP criteria (excluding health and public works).

Education for sustainability

Education for sustainability

It is a strategy to build and facilitate change through knowledge, awareness, responsible action skills and active involvement of the younger generation and adult citizenry.

It is an idea of the future and works for change, individual, cultural and social. It is a paradigm shift that focuses on values, particularly those of CARE and RESPECT, for others, for the commons, and for the PLANET.

Sustainability education is a cultural and socio-economic tool TRANSVERSAL to disciplines and organizations, involving citizens in the enhancement of the commons.

THE SARDINIAN NETWORK



In Sardinia, over the past 20 years, we have created a network of educators on sustainability financed and coordinated by the Sardinia region.

IN SARDINIA 55 CEAS

(ENVIRONMENTAL AND SUSTAINABILITY EDUCATION CENTERS)

MULTIFUNCTIONALITY INFORMATION SUPPORT

SPREAD TRAINING LISTENING

CULTURE ANIMATION PLANNING

IN SARDINIA we have 55 CEAS (ENVIRONMENTAL AND SUSTAINABILITY EDUCATION CENTERS) that speak to everyone, adults and school children, of multifunctionality, spread, culture, information, training, animation, support, listening, planning.

We have some environmental education projects with schools: one is a project on plastics and the circular economy, one on climate change and fire prevention and one on the enhancement of common goods, financed by the region, for a value of several million euros.

We have some environmental education projects with schools: one is a project on plastics and the circular economy, one on climate change and fire prevention and one on the enhancement of common goods, financed by the region, for a value of several million euros.

I close my speech with the ability to know how to put oneself in the other's shoes: those who work on economic issues must be able to see through the eyes of environmental and social protection and vice versa, one of the ways to deal with complexity and create really value and public interest.



REGIONE AUTÒNOMA DE SARDIGNA REGIONE AUTONOMA DELLA SARDEGNA