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1. ABOUT SARAS INSTITUTE

SARAS is a joint initiative of the University of the Republic (Uruguay), University of Wageningen (The Netherlands), Resilience Alliance (USA), Ministry of Education and Culture (Uruguay) and Municipality of Maldonado (Uruguay).

It is led by an Advisory Board and an Administration Board (the latter is part of the SARAS Foundation structure. It also has an Executive Team, Associated Researchers and Artists, and Honorary Fellows.

The South American Institute for Resilience and Sustainability Studies (SARAS) is a transdisciplinary research center that seeks to contribute substantively with the production of knowledge and capacity building on the processes and mechanisms that determine the sustainability of essential ecosystem services for human well-being.

The institute’s building and its way of functioning facilitates and supports collaborative work and networks, providing space and facilities for workshops, courses, and other academic activities. The first stage of construction of SARAS in Bella Vista (Department of Maldonado, Uruguay) was completed in 2015 with funds from the Ministry of Education and Culture (MEC) and the Municipality of Maldonado. The MEC provided the support for the baseline operation of the Institute until 2016. Since 2017, the Ministry of Housing, Territorial Planning and Environment (MVOTMA) provides most of the baseline budget.

2019 SARAS Institute structure:

Advisory Board: Laurie Beth Clark (Director of the Advisory Board, University of Wisconsin-Madison, USA), Esteban Jobbágy (Co-Director of the Advisory Board, National University of San Luis, Argentina), Matilda Baraibar (Stockholm University, Sweden), Rafael Calderón-Contreras (Universidad Autónoma Metropolitana, México), Stefan Gelcich (Pontificia Universidad Católica de Chile, Chile), Pedro Roberto Jacobi (University of São Paulo, Brazil), Jesse Lee Kercheval (University of Wisconsin-Madison, USA), Jorge Marcone (Rutgers-New Brunswick University, USA), Mariana Meerhoff (University of the Republic, Uruguay), Henrik Österblom (Stockholm Resilience Center, Sweden) and Cristina Zurbriggen (University of the Republic, Uruguay).

Administration Board: Mariana Meerhoff and Ricardo Ehrlich (Delegates of the Advisory Board), Juan Cristina and Néstor Mazzeo (Delegates of the University of the Republic), Jorge Céspedes (Delegate of the Municipality of Maldonado), Marisol Mallo (Delegate of the MVOTMA) and Álvaro Soutullo (Delegate of Associate Researchers).

Staff: Néstor Mazzeo (Executive Director), Micaela Trimble (Research and Cooperation Coordinator), Gabriela Bardecio (Head of Communications), Ana Fierro (Secretary), Fiorella Polcaro (Assistant) and Manfred Steffen (Content Manager).
VISION

From the science-art-policy interface, SARAS aims to generate new knowledge on climate change and water resources, land and ocean uses, food security in the countryside and the city, among other. To overcome the fragmentation of knowledge and visions, SARAS promotes innovative approaches based on the co-production of knowledge based on the interaction between disciplinary domains, knowledge systems, science and art, and the science-policy dialogue.
2. THEME OF THE YEAR

2.1. Workshop

“Tasting sustainability in Uruguay: towards food systems that work for people and the planet”.

Over three days, which included a field trip, almost 60 people gathered at the headquarters of SARAS Institute in Bella Vista and its surroundings, to collectively identify and propose work themes, actions and proposals for activities to be carried out in 2020.

The “Tasting sustainability in Uruguay” workshop was the first phase of a collaborative project that brought together various players involved in this topic. SARAS Institute proposed working collaboratively towards the co-creation of the public event to be held in 2020.

In order to make progress towards thinking about sustainable food strategies for the Latin American context, and in particular for Uruguay, the interdisciplinary team in charge of organizing the event suggested forming three theme groups to work in the following areas: Local/Agro-ecology, Land/Agro-export and Water/Fisheries.

With a transdisciplinary and inclusive spirit of work, each theme group brought together researchers (members of SARAS and other institutions), young researchers and artists -including members of the Socio-ecological Co-creation Network for Latin America (RESACA), as well as other groups that are based in the institute and key players involved in the process that ranges from food production and processing to movement and consumption.

Among the guests there were chefs who not only provided ingredients for dialogue, but also a variety of dishes that participants could taste during the event.

During the first two days, the three teams held parallel meetings where they discussed aspects connected to their productive sector and related systems. The teams adopted various strategies ranging from presentations and dialogue tables, sharing experiences, to collectively preparing a huge soup pot.

Tapping into the wealth and diversity of knowledge and experience, dialogues and contributions were generated to understand the
different situations, key tensions, challenges, and perspectives. During the discussions the following aspects were highlighted: the crisis in the fishing sector, causal mechanisms and alternatives to overcome the problem; the transformation of the agro-export sector and the development of the country; food consumption patterns and their impact on human health.

The theme meetings, as well as the spaces for dialogue held in plenary sessions, made it possible to advance towards the creation of new alliances and connections between different players; this is highlighted as one of the main results of the workshop, and an essential ingredient towards true collaboration with important implications for the future.

The participation of diverse players and the integration of different fields of knowledge was key to adopting different strategies, paths and perspectives that can dialogue with the breadth and intricate complexity of food and sustainability challenges.

After coming up with a wide range of ideas, proposals, and initiatives, the organizing team now strengthened with new participants, will continue working towards establishing an activity and experiment schedule to be carried out throughout 2020.

Following the pillars and objectives of SARAS Institute, 2020 activities will seek to continue bringing together different knowledge, paying special attention to include the arts and sciences. We aim at offering a platform that serves as a bridge and enables the understanding and participation of dialogues on food and sustainability among a diverse audience and players, including civil society, academia, and decision makers.
The participants represented the following institutions and initiatives (in Spanish alphabetical order):

- Alianza del Pastizal
- UNESCO Chair on Sociocultural Anticipation and Resilience
- Tropical Agronomic Center for Research and Teaching
- Stockholm Resilience Center
- Centro Universitario Regional del Este (CURE)
- Arazá Restaurant
- Cook and agro-ecological producer
- National Directorate for Aquatic Resources
- Eco gastronomy
- Rural Federation of Uruguay
- Clemente Estable Institute
- National Meat Institute
- Serrapilheira Institute
- Uruguayan Institute of Gastronomy, Punta del Este
- Ministry of Livestock, Agriculture and Fisheries
- Ministry of Housing, Territorial Planning and Environment
- National Museum of Visual Arts
- Food and Agriculture Organization of the United Nations
- Artisanal fisherman
- Pontifical Catholic University of Chile
- Pontifical Catholic University of Peru
- Livestock producer - Rural Federation (current Minister of Livestock, Agriculture and Fishing)
- Agro-ecology Network of Uruguay
- Single Union of Uruguayan Fishery Employers - Traffic and Cabotage
- Autonomous Metropolitan University of Mexico City
- Catholic University of Uruguay
- Carnegie Mellon University
- University of Buenos Aires
- University of Concepción
- Stockholm University
- University of the Republic
- Rutgers University-New Brunswick
- University of Salamanca
- University of São Paulo (IEE / USP)
- Wageningen University
- University of Waterloo
- University of Wisconsin-Madison
- Federal University of Rio Grande do Norte
- Arturo Jauretche National University
- National University of Rosario
- National University of San Luis
- Sydney University of Technology
Opposite page: Micaela Trimble, Research and Cooperation Coordinator of SARAS Institute welcomes and opens the “Food and Sustainability” Workshop.

From left to right: group activities and plenary sessions held on both days of the workshop.
Continuing with the training program for young researchers in the field of socio-ecological systems (started in 2018), different working groups met at SARAS Institute under the slogan Weaving Networks (Tejiendo Redes). The objectives of the meeting were to create a space for strengthening networks of young researchers, share ideas on potential projects, and identify topics and common lines of work with SARAS Institute.

December is a month filled with activities at SARAS Institute. The Weaving Networks (Tejiendo Redes) workshop began on the first day of the month, bringing together young researchers and artists who met in December 2018 and whose work is linked to the theme of sustainability. With the support of the Stockholm Resilience Center they participated in the course entitled "Introduction to research on socio-ecological systems in Latin America" and in the 8th SARAS Public Conference 2018 "Ecosystem services: Knowledge generation and decision-making". As a result of that meeting several groups and networks were created, such as the RESACA Network. In 2019, RESACA together with SARAS set about creating an interactive co-creation workshop, with the attendance of Advisory Board members and SARAS Institute associated researchers.

The objectives of the two-day meeting were:

- Provide a platform for the participants of the December 2018 course (which sought to form a network of young researchers and artists) to hold an on-site meeting to continue strengthening their network(s).

- Encourage collective learning, promote sharing information on works in progress, and discuss aspects related to project implementation, among other.
- Identify themes or common lines of work among networks or groups that were created and SARAS, thus opening new avenues that facilitate continuous collaboration.

- Lay the foundations for these networks or groups to contribute to achieving the SARAS vision.

The activities of the members of RESACA included: "Connection, action and reflection from plastic and visual means" led by Alejandra González Soca (University of the Republic and Catholic University of Uruguay) with the aim of focusing on collective action, bringing together participants to reflect on sustainability issues from a plastic visual modality. On the second day of the workshop a "World Café" was held, facilitated by Ana Carolina E. Dias (University of Waterloo, Canada) as a trigger to discuss what the participants can contribute to the network(s), topics of collective interest and how to proceed. Through these activities participants were able to connect, not only through reflection, but also through deep human connection with the environment.

As a result of the workshops and activities carried out in 2019, many work initiatives were presented by the groups to the members of SARAS. Following are some of the initiatives:

**Access to information for the management of collective goods.**

The objective of this project is to study decision-making processes, access to justice, and initiatives that contribute to decriminalize environmental activism through access to information by civil society. The Regional Agreement on Access to Information, Public Participation and Access to Justice in Environmental Matters in Latin America and the Caribbean, known as the "Escáuz Agreement" of 2018, will be used as a reference. The Agreement’s ratification and signing process is underway. Members of the group selected three focus countries: El Salvador, Uruguay and Argentina.
Voices of the Lagoon (Voces de la Laguna): Interpreting water for the GovernAgua project

This is part of the “systematization of learning” developed by the SARAS Institute for the GovernAgua project. This project addresses a comparative analysis of water-related crises in six basins of three South American countries (Argentina, Brazil and Uruguay).

The study covers the Laguna del Sauce Basin, located in the department of Maldonado, Uruguay. Collaboration with the GovernAgua team will aim to reinforce the co-creation of knowledge with other academic, government, and community players; and create a shared sense of purpose throughout the different stages of the project.

In the words of the members of this working group: “The more and better we interpret the accounts given by the players, the projects will be enriched with better dialogue, and will be genuinely more transdisciplinary. And perhaps, a more integrated or holistic approach to knowledge and forms of knowledge production will authorize, legitimate, and increase the credibility of researchers by communicating their conclusions with decision-makers and the public”.

Archetypes of the behavior of scientists at conferences

This proposal uses humor as a tool to define archetypes of scientists and their behavior in specific areas such as conferences, workshops, or meetings. The initiative seeks to analyze the capacities and weaknesses in interpersonal interactions and knowledge construction.

On the other hand, the RESACA Network promotes transformation processes from a transdisciplinary and co-creation perspective with a strong Latin American imprint. Activities involve the construction of transformative narratives, trying to overcome the predominance of dystopias and the construction of shared utopias and visions. In 2020, in addition to preparing a review article on transdisciplinary research in Latin America, part of its efforts will focus on organizing the SARAS 2020 event titled: “Savoring sustainability in Uruguay: towards food systems that work for people and the planet”.

Intense days of work, reflection and co-creation gave particularly good results and left many lessons to be learned. Great satisfaction to see the work and commitment of these young Latin Americans. This is how Marten Scheffer’s words from December 2018 become more and more relevant: “It is a joy to see how SARAS is growing (...). The energy and motivation of the group of young students proved that our original vision of shaping a generation of visionary thinkers and creators through intense interactions that take place in SARAS, is coming to life in ways that we could not have anticipated, it is a dream come true”.
Top: participants in the Weaving Networks Workshop and the SARAS Institute Staff
Opposite page, left to right: outdoor activity - closing session of the World Café
LATINOADAPTA: STRENGTHENING LINKS BETWEEN SCIENCE AND GOVERNMENTS FOR THE DEVELOPMENT OF PUBLIC POLICIES IN LATIN AMERICA (2018-2020)

OVERALL OBJECTIVE

Strengthen capacities of national governments in Latin America to make decisions and implement climate policies based on scientific evidence.

SPECIFIC OBJECTIVES

1 - Evaluate challenges and opportunities to implement Nationally Determined Contributions (NDCs) in six Latin American countries, focused on adaptation knowledge gaps.

2 - Strengthen decision-making on climate change, solving the specific knowledge gaps previously identified and facilitating access and understanding of the relevant information for adaptation.

3 - Provide advice to Latin American negotiators/diplomats on issues relevant to NDCs and National Adaptation Plans (NAPs), accompanying their implementation and consultations related to the facilitating dialogue, Subsidiary Body for Scientific and Technological Advice (SBSTA) and/or Subsidiary Body for Implementation (SBI).

4 - Promote interregional exchange of experiences, best practices and expertise to stimulate climate action.

ROLE OF SARAS INSTITUTE

Host the Regional Network on Climate Change and Decision Making - UNESCO UNITWIN Program.

Develop research and products jointly with ORT University Uruguay.

Funding: International Development Research Center (IDRC).

Coordination: Avina Foundation and FARN

Institutions responsible for Uruguay: SARAS and ORT University.

The main research projects developed during 2019 are listed below.

3.1. Research projects carried out
Top: Presentation of the LatinoAdapta project, right, arbitrated publication “Knowledge gaps and climate adaptation policy: a comparative analysis of six Latin American countries”.


Scan to access the project on the SARAS website
GOVERNAGUA: TRANSFORMING WATER GOVERNANCE IN SOUTH AMERICA: FROM REACTION TO ADAPTATION AND ANTICIPATION (2019-2021)

OVERALL OBJECTIVE

Contribute to the provision of ecosystem services and human well-being associated with water, through an improvement in the anticipatory governance of water in South America, by strengthening capacities for adaptation, anticipation, and co-creation of knowledge.

SPECIFIC OBJECTIVES

1 - Systematize learning through a comparative analysis of water governance in six basins located in Argentina, Brazil and Uruguay (two from each country), with emphasis on the relation to the water provision and water scarcity crisis.

2 - Strengthen the people’s, groups, and institutions’ ability to anticipate changes and consequences of the decisions they make, for an adaptive and anticipatory water governance.

3 - Lay the foundation for a system of experimental anticipatory governance with the participation of the various actors with the capacity to anticipate and transform problems in the basins, operating as a collective intelligence system that informs local, national and regional policies.

MAIN INSTITUTIONS

SARAS Institute, Maldonado, Uruguay
Institute of Energy and Environment, University of São Paulo, IEE / USP, Brazil
Patagonian Institute for the Study of Continental Ecosystems, IPEEC-CONICET-CENPAT, Argentina
Institute of Applied Mathematics San Luis, IMASL-CONICET, National University of San Luis, Argentina

PARTNER ACADEMIC INSTITUTIONS

University of the Republic, Uruguay
Universidade Federal do ABC - UFABC, Brazil
National Technological University-UTN, Argentina
Institute for Environmental Systems Research, University of Osnabrück, Germany
GOVERNMENT AND NON-GOVERNMENT PARTNERS

Global Water Partnership (GWP), South America
UNESCO International Hydrological Program
The Nature Conservancy
ICLEI South America - Local Governments for Sustainability
Agencia das Bacias PCJ (Brazil)
AGEVAP Agency (Basin Committee of Paraíba do Sul, Brazil)
National Directorate for Environmental Management of Water and Aquatic Ecosystems (Argentina)
Ministry of Environment and Control of Sustainable Development (Chubut, Argentina)
Provincial Water Institute of the Province of Chubut (Argentina)
Ministry of Environment, Field and Production (San Luis, Argentina)
National Secretariat of Environment, Water and Climate Change (SNAACC, Uruguay)
National Directorate of Environment (DINAMA-MVOTMA, Uruguay)
National Water Board (DINAGUA-MVOTMA, Uruguay)

FUNDING

Co-financed Small Grants Program “The role of ecosystem services in adapting to global change for human well-being” (SGP-HW), from the Inter-American Institute for Global Change Research (IAI).

ROLE OF SARAS INSTITUTE
Project host site. Coordination of research.

Invitation to the official launch event of the GovernAgua research project.
4. EDUCATION AND CAPACITY BUILDING

4.1. Courses

Postgraduate course “Socio-ecological systems: structure, dynamics and management”, aimed at doctoral and master's students and staff of government institutions (April - July, SARAS, Bella Vista, Uruguay).


"Rivers and streams: structure, operation and management" a course that is part of the Diploma on "Introduction to Environmental Care and its Current Problems". Teacher: Néstor Mazzeo

Course taught at the Crandon University Methodist Institute, Montevideo, March to June 2019.

4.2. Other on-site activities

Matinee and workshop: "Resilient Utopias, between dreaming and doing of three Latin American communities" (Utopías resilientes, entre el soñar y el hacer de tres comunidades latinoamericanas). Pre-release of documentary "A Place Nowhere" (Lugar en ninguna parte) by authors Anthony Fletcher and Guillermo Amato, organized within the framework of Green June - environment month in Piriápolis (June 28, SARAS, Bella Vista, Uruguay).
4.3. Webinars

Preparatory cycle of the 9th SARAS Public Conference 2019 - 2020: "Food and Sustainability 2020"

"Main transformations of land use in South America: patterns, impacts, sustainability"
Esteban Jobbágy, Institute of Applied Mathematics San Luis (IMASL-CONICET), Argentina

"The paradigm of sustainable intensification: a tale of the good pipe?"
José Paruelo, Institution: National Institute for Agricultural Research / INIA Uruguay

"Design for transformation: imagination and action as ingredients"
Silvana Juri, Candidate for a PhD in Design for Transitions from Carnegie Mellon University, USA.

"Building shared visions: future and anticipatory assumptions"
Lydia Garrido, UNESCO Chair in Sociocultural Anticipation and Resilience, SARAS Institute
5. CONFERENCES, SEMINARS AND WORKSHOPS

MARCH
6th International Symposium for the design of agricultural systems
Montevideo - Uruguay

Workshop on SDG 13: climate action. Examining the draft 2019 Voluntary National Review,
Montevideo - Uruguay

MAY
11th Meat and food science and technology technical conference
Montevideo - Uruguay

APRIL
HELP-GWP Consultation on the Draft Principles on Investment and Financing for Water-Related Disaster Risk Reduction
Montevideo - Uruguay

Cycle of meetings: 2019 Debate on Fisheries
Montevideo - Uruguay

Strategic workshop: drafting of Political Dialogue
SARAS - Bella Vista - Uruguay

JUNE
First International Symposium of UNESCO Chairs in Anticipatory Systems, Futures Studies and Futures Literacy
Trento - Italia

Seminar on management and control of invasive aquatic plants in irrigation canals
Talca - Chile

Climate agenda and role of the private sector
Montevideo - Uruguay

Green June: matinee: Resilient Utopias, between dreaming and doing of three Latin American communities
SARAS - Bella Vista - Uruguay
JULY

XVII Conferencia Global de la Asociación 17th Global Conference of the International Association for the Study of Commons
Lima - Perú

Native forest workshop
Piriápolis - Uruguay

9th Conference on History and Culture of America
Montevideo - Uruguay

OCTOBER

Presentation of the national plan for adaptation to variability and climate change for the agricultural sector
San Pablo - Brasil

2019 Transformations Conference
Santiago - Chile

Climate Week
Santiago - Chile

DECEMBER

Workshop “Tasting Sustainability in Uruguay”
SARAS - Bella Vista - Uruguay

70th Anniversary Celebration of the UNESCO Office in Montevideo
Montevideo - Uruguay

SEPTEMBER

Presentation of the national plan for adaptation to variability and climate change for the agricultural sector
Montevideo - Uruguay

Assessment of the various values and valuation of nature and its contributions to people - IPBES
SARAS - Bella Vista - Uruguay

Workshop: towards South-South cooperation on issues of environmental governance and ecosystem services: interdisciplinary research in São Paulo, Brazil.
SARAS - Bella Vista - Uruguay

NOVEMBER

Nexus: an integrated planning approach to decision making
Montevideo - Uruguay

8th International Symposium on Climatology
Belén - Brasil

North-South Dialogues - Science and Climate Relations and COP 25
San Pablo - Brasil

10th Congress on Ecology and Management of Pampean Aquatic Ecosystems “Knowledge for responsible management”
Buenos Aires - Argentina
6. COOPERATION AND NETWORKS
SARAS HAS PARTNERSHIPS WITH THE FOLLOWING INSTITUTIONS

EUROPE:

Germany
Institute of Environmental Systems Research, University of Osnabrück
Leibniz Center for Agricultural Landscape Research

Spain
University of Cantabria

France
UNESCO - Future Literacy Initiative

The Netherlands
Wageningen University

Sweden
Beijer Institute for Ecological Economics - Stockholm University
Future Earth - Sweden Global Hub
EfD Initiative - Environment for Development
Stockholm University
SRC - Stockholm Resilience Center
PECS - Program on Ecosystem Change and Society

NORTH AMERICA:

Canada
DRC - International Development Research Center
University of Waterloo
University of Brock

U.S.A
University of Wisconsin
Arizona State University
Florida Atlantic University
Resilience Alliance
Rutgers - The State University of New Jersey

LATIN AMERICA:

Argentina
Patagonian National Center - CONICET
National University of San Luis
* Latin American School of Social Sciences - FLACSO- (RRCCTD)
* National Technological University - UTN
* Environment and Natural Resources Foundation - FARN
* Graduate School - Technological Institute of Buenos Aires - ITBA
** National Directorate for Environmental Management of Water and Aquatic Ecosystems (Argentina)
** Ministry of Environment and Control of Sustainable Development (Chubut, Argentina)
** Provincial Water Institute of the Province of Chubut (Argentina)
** Ministry of Environment, Field and Production (San Luis, Argentina).

Brazil
University of Brasilia
Brazilian Research Network on International Relations and Climate Change
* IEE-Institute of Energy and Environment - University of São Paulo-USP
* UFABC - Federal University of ABC - São Paulo
* Getulio Vargas Foundation - FGV - Rio de Janeiro
** PCJ Basin Agency (Piracicaba, Capivari and Jundiaí) - São Paulo
** AGEVAP Agency - Paraíba del Sur Basin Committee

Chile
Pontificial Catholic University of Chile
CAPES - Center for Applied Ecology and Sustainability
* Global Change Center - Pontifical Catholic University of Chile- UC
* ADAPT-Chile Foundation

Colombia
University of the Andes

Costa Rica
CATIE - Tropical Agricultural Research and Training Center
EfD Center for Central America - Environment for Development

Ecuador
CDKN - Climate and Development Alliance, Latin America and the Caribbean

Mexico
National University of Mexico (IIES-UNAM)
SocioECOS NETWORK
IPBES - Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services

Paraguay
* Moisés Bertoni Foundation for Nature Conservation
* Catholic University of Asunción - UCA

SARAS is an Institute with regional scope and South-South cooperation
It has the following strategic allies:

International Development Research Center (IDRC, Canada) Regional Office for Latin America and the Caribbean
FAO (United Nations for Food and Agriculture) Uruguay
Laguna del Sauce Basin Commission (Maldonado)
IAI - Inter-American Institute for Research on Global Change - Inter-American for Climate Change
Other partners and alliances of current projects

** ORT University Uruguay - School of Administration and Social Sciences
** GWP - Global Water Partnership, South America
** UNESCO International Hydrological Program
** TNC - The Nature Conservancy
** ICLEI South America - Local Governments for Sustainability

References:
* LatinoAdapta Project - UNITWIN Regional Network on Climate Change and Decision Making
** GovernaAgua Project - Transforming Water Governance in South America from Reaction to Adaptation and Anticipation
7. PUBLICATIONS

CHAPTERS IN BOOKS

“Combining strategies. Decentralization and centralization in water management in Uruguay”

“Governança da água para adaptação e resiliência no Antropoceno”

PEER-REVIEWED JOURNAL ARTICLES

"Assessment of the vulnerability of livestock producers in the Eastern Sierras in different scenarios"  

“Natural and land-use drivers of primary production in a highly vulnerable region of livestock production” (Sierras del Este – Uruguay)  

“Time for tools: A review on geospatial tools and their role in co-management”  
“Unsustainable Science”

“How to build a cross-disciplinary institute: the curious case of the South American Institute for Resilience and Sustainability Studies”

“Co-gestão adaptativa em áreas protegidas: reflexões a partir da Estação Ecológica de Guaraqueçaba, Paraná”

“Participatory evaluation for adaptive governance of socio-ecological systems”

"The most common of tragedies"

CONTRIBUTIONS TO POLICIES

National Plan for Adaptation to Variability and Climate Change for the Agricultural Sector (PNA-Agro). 2019 Editors: Ministry of Livestock, Agriculture and Fisheries, and Coordination Group of the National System of Response to Climate Change and Variability.

POLICY BRIEF

“Monitoring and evaluation of the capacity to adapt to climate change: how to learn by doing and its implications in decision-making”

"Contributions to the design of public policies linked to the vulnerability of the productive sectors to climate change"
SARAS Institute

SPECIAL EDITION IN ECOLOGY & SOCIETY

Seeking Sustainable Pathways for Land Use in Latin America
Editors: Juan Carlos Rocha, Néstor Mazzeo, Matías Piaggio, Miguel Carriquiry

CONTENT:

The forest transition in São Paulo, Brazil: historical patterns and potential drivers

Multiscale spatial planning to maintain forest connectivity in the Argentine Chaco in the face of deforestation

Beyond proximate and distal causes of land-use change: linking Individual motivations to deforestation in rural contexts
Ximena Rueda, María Alejandra Velez, Lina Moros, Luz Angela Rodríguez (2019).

The changing chagras: traditional ecological knowledge transformations in the Colombian Amazon

Toward understanding the dynamics of land change in Latin America: potential utility of a resilience approach for building archetypes of land-systems change
Juan C. Rocha, Matilda M. Baraibar, Lisa Deutsch, Ariane de Bremond, Jordan S. Oestreicher, Florencia Rositano, Cecilia C. Gelabert (2019).

Beyond PES and REDD+: Costa Rica on the way to climate-smart landscape management?
Linda Wallbott, Giuseppina Siciliano, Markus Lederer (2019).
Forests expand as livestock pressure declines in subtropical South America
Rafael E. Bernardi, Marion Buddeberg, Matías Arim, Milena Holmgren (2019).

Agricultural expansion in Uruguayan grasslands and priority areas for vertebrate and woody plant conservation
Alejandro Brazeiro, Marcel Achkar, Carolina Toranza, Lucía Bartesaghi (2019).

Toward negotiated mitigation of landslide risks in informal settlements: reflections from a pilot experience in Medellín, Colombia

A system thinking approach for eliciting mental models from visual boundary objects in hydropolitical contexts: a case study from the Pilcomayo River Basin

Land use planning in the Amazon basin: challenges from resilience thinking

Transformation of traditional shifting cultivation into permanent cropping systems: a case study in Sarayaku, Ecuador
Hannes Schritt, Christine Beusch, Pedro Ríos Guayasamin, Martin Kaupenjohann (2019).