

Protected Areas Management in Bolivia: possibilities in a Plurinational State

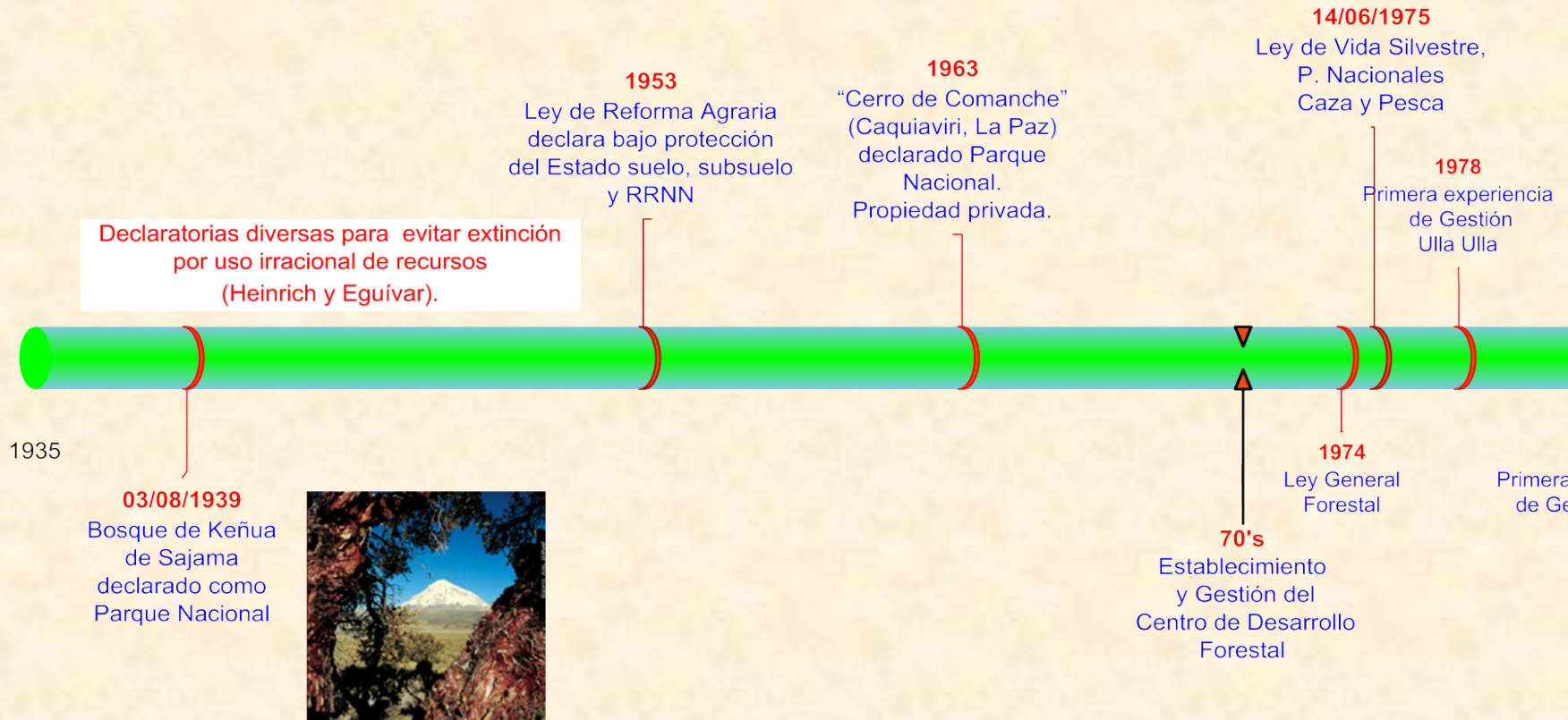


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IE – UMSA
Dresden 2012

Background

- The Constitution of the Plurinational State of Bolivia was approved in 2009.
- Brings a new range of possibilities for natural resource management at **different territorial administrative levels**.
- Distributes **duties and responsibilities** for the management of biodiversity and protected areas to local governments.

History



Autonomous Administrative Levels

- ◉ National
- ◉ Departamental
- ◉ Municipal
- ◉ Indigenous territories
(Territorios Indigena Originario Campesino)



Distribution of powers in Bolivian Constitution

	Description
Privatives	Those whose legislation, regulation and enforcement cannot be transferred or delegated, and is reserved for the central state level.
Exclusive	Those in which one level of government has on a given subject the powers legislative, regulatory and enforcement may transfer or delegate the latter two.
Concurrent	Those in which the law is for the central state level and the other levels simultaneously exert regulatory and enforcement powers.
Shared	Those subject to a basic law of the central State whose laws of development lies with autonomous territorial entities, according to their characteristics and nature. The regulation and enforcement shall be autonomous territorial entities.

Central level of the State (National)

Powers	Artículo	Scope
Privatives	Articulo 298/I	General biodiversity and environmental policy
Exclusives	Articulo 298/II	Special regime for biodiversity and environmental management National priority protected areas
Concurrent	Articulo 299/II	To preserve, conserve and help protect the environment and wildlife maintaining ecological balance and environmental pollution control

Departamentos

Powers	Scope
Privatives	Has no privative powers
Exclusives	To promote and conserve the natural, cultural, archeological and scientific heritage
Concurrent	Must be defined
Delegated	Delegated by the central level of the State



Municipal

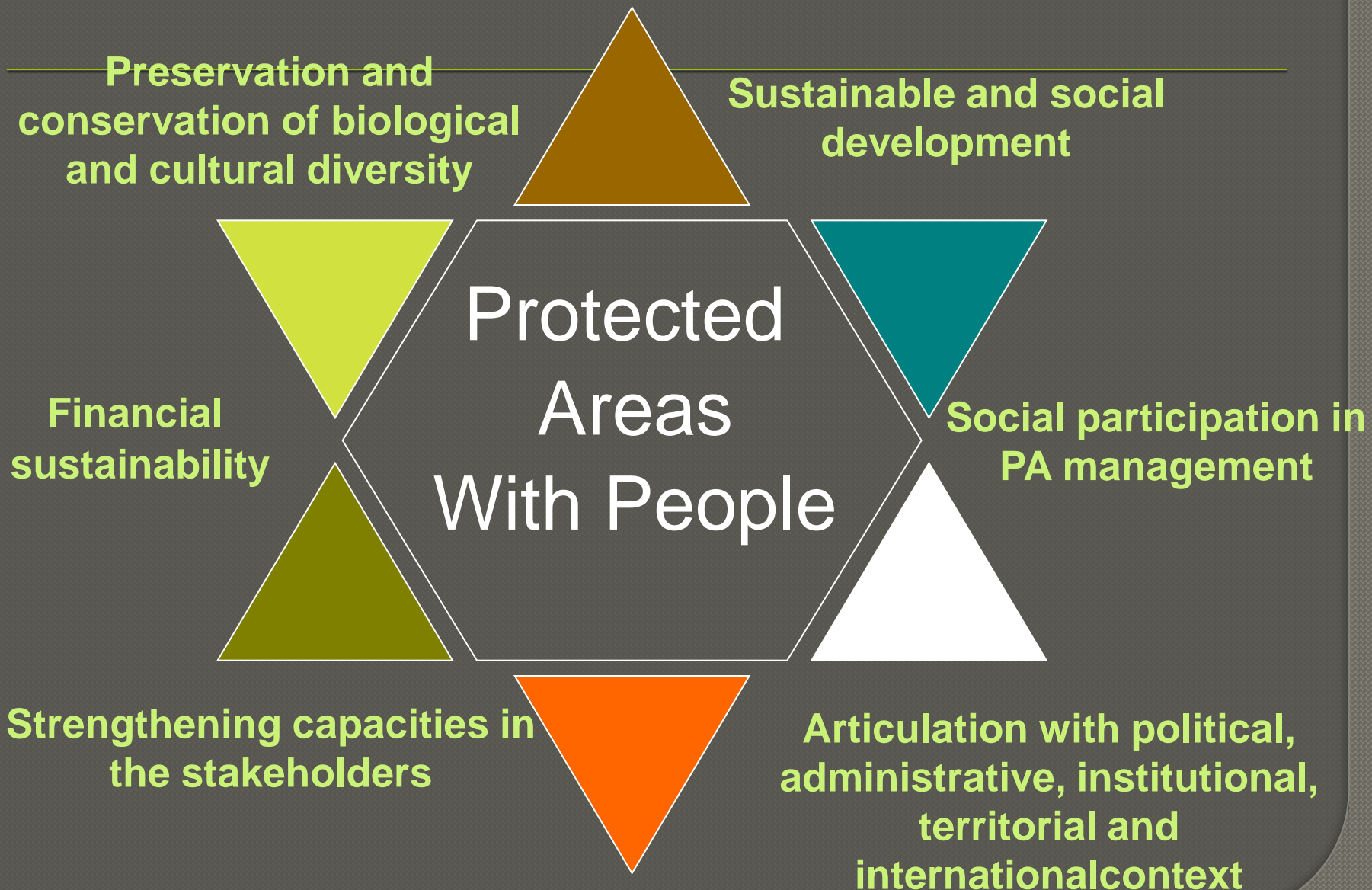
Powers	Scope
Exclusives	<p>To preserve, conserve and help protect the environment and natural resources, wildlife and domestic animals.</p> <p>Development of Land Management Plans and land use, in coordination with the others administrative levels</p> <p>Municipal protected areas</p> <p>To promote and conserve the municipal natural heritage</p> <p>Promotion and preservation of cultural, historical, artistic, monumental, architectural, archaeological, paleontological, scientific, tangible and intangible heritage in the municipality</p>
Delegated	Those delegated by the other levels

Protected Areas

- Advance in shared management of protected areas overlapping with indigenous territories, which imply:
- Recognition of land rights that indigenous people have since before the creation of protected areas (Art. 385 CPE).



Strategic Management Guidelines



CONTEXTUALIZACIÓN

NUEVA GESTIÓN DEL SISTEMA NACIONAL DE ÁREAS PROTEGIDAS

CONSERVAR EL PATRIMONIO
NATURAL Y CULTURAL
+
CONTRIBUIR AL DESARROLLO INTEGRAL Y CON IDENTIDAD
A NIVEL NACIONAL, REGIONAL Y LOCAL

1 2 3 4 5 6

1 2 3 4 5 6

1 2 3 4 5 6

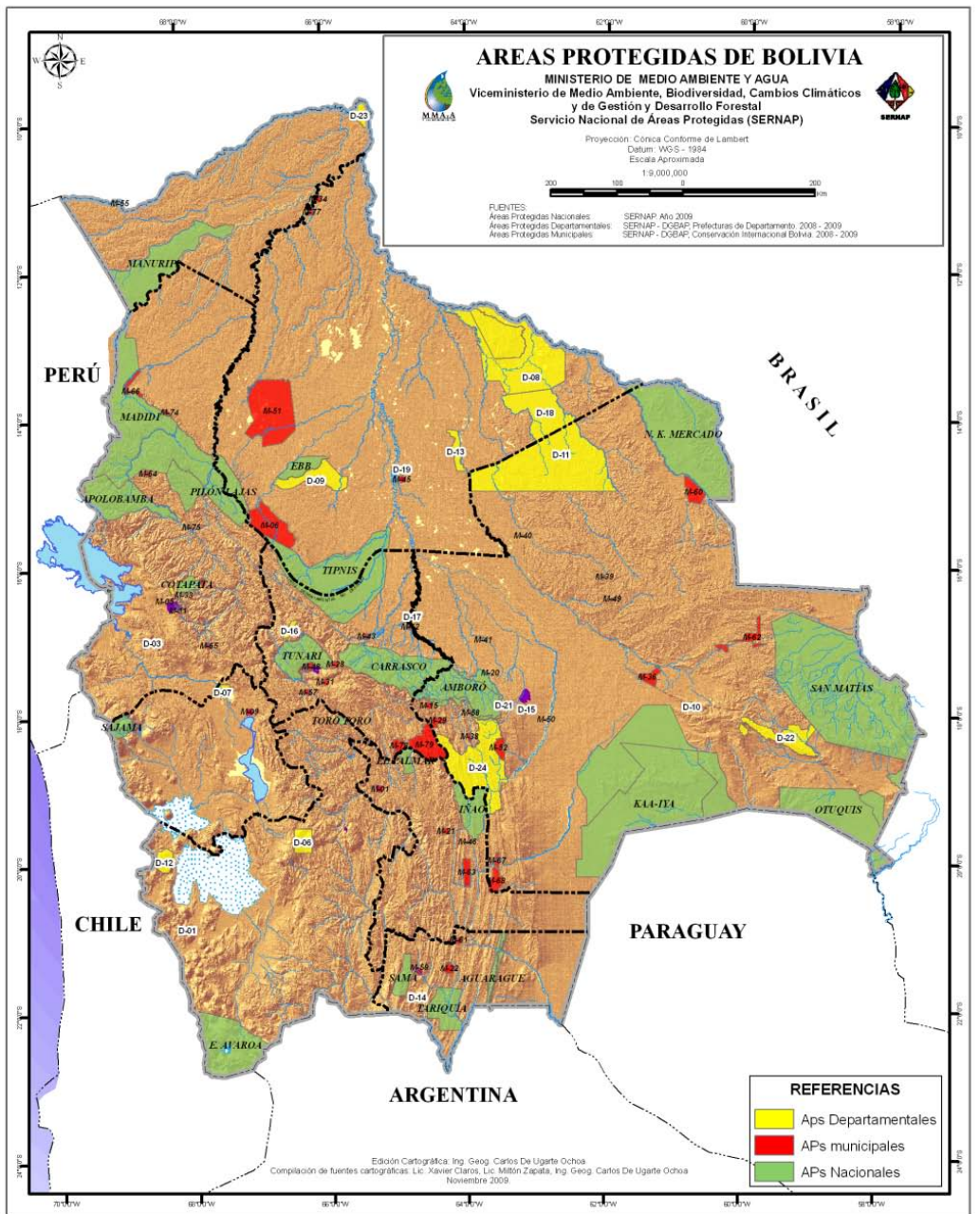
1 2 3 4 5 6

RESPONSABILIDAD CONJUNTA ENTRE EL ESTADO PÚBLICO Y LAS ORGANIZACIONES SOCIALES
DE LAS ÁREAS PROTEGIDAS Y SU ENTORNO (GESTIÓN COMPARTIDA)

RECONOCIMIENTO DE LA SOCIEDAD NACIONAL E INTERNACIONAL

ESTRATEGIAS A 10 AÑOS: 1) PRESERVACIÓN DEL PATRIMONIO NATURAL Y CULTURAL; 2) DESARROLLO ECONÓMICO SOCIAL SOSTENIBLE;
3) PARTICIPACIÓN SOCIAL EN LA GESTIÓN DE LAS APS; 4) FORTALECIMIENTO DE LAS CAPACIDADES DE GESTIÓN DE ACTORES RELEVANTES;
5) VINCULACIÓN CON EL CONTEXTO POLÍTICO ADMINISTRATIVO, INSTITUCIONAL, ORGANIZATIVO Y TERRITORIAL;
6) GESTIÓN DE FINANCIAMIENTO SOSTENIBLE.





SNAP BOLIVIA

- **Bolivia: 1.098.591 Km²**
- **22 AP Nacionales 167 mil Km²**
- **22 AP Departamentales 63 mil Km²**
- **78 AP Municipales**
- **Total 230 mil Km² (22%)**



Photos by: Daniel Alarcon

La Paz Municipality towards a biodiversity and ecosystem services conservation system

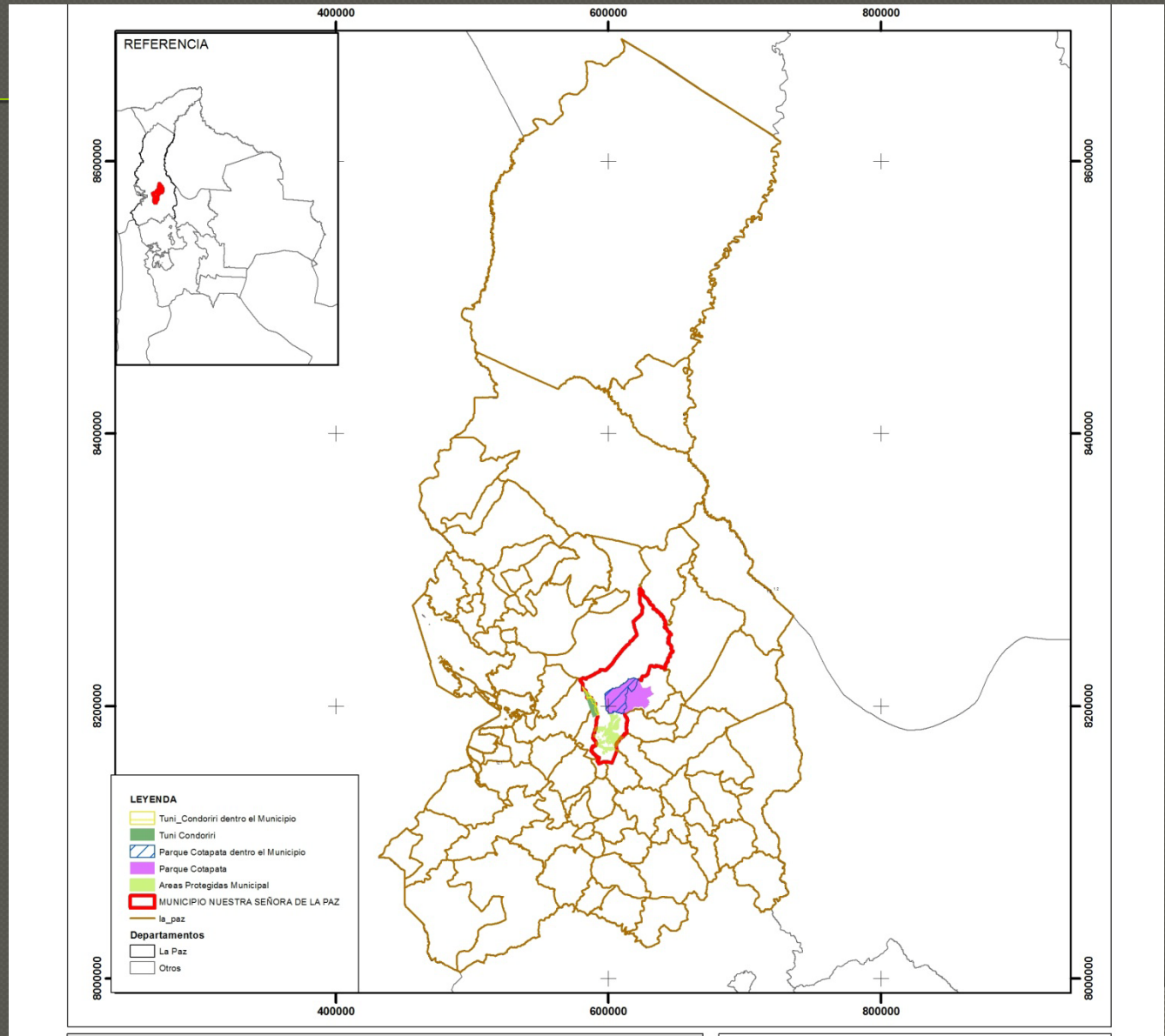
The Nature Conservancy 
Protecting nature. Preserving life.™



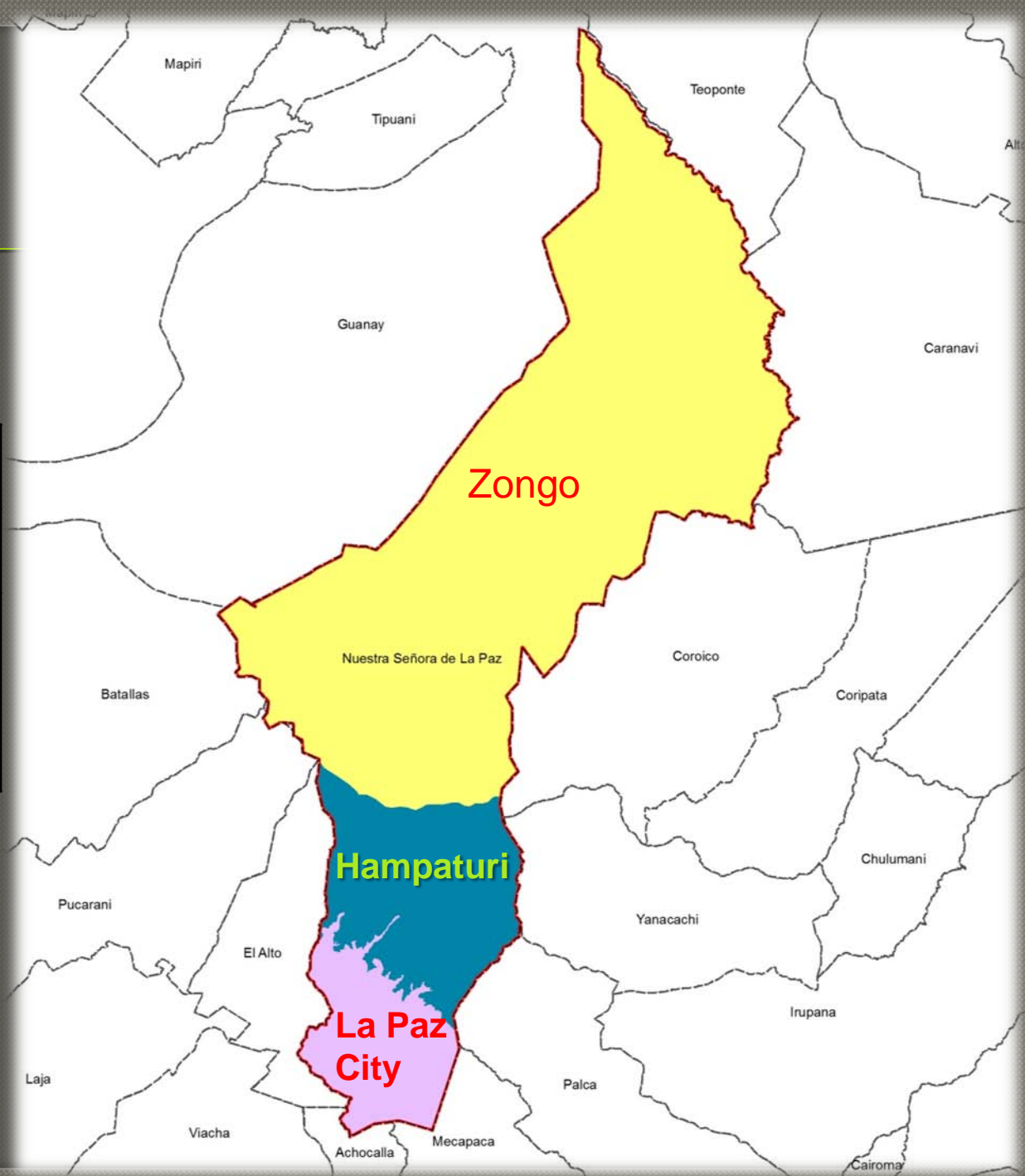
Bundesministerium
für Umwelt, Naturschutz
und Reaktorsicherheit



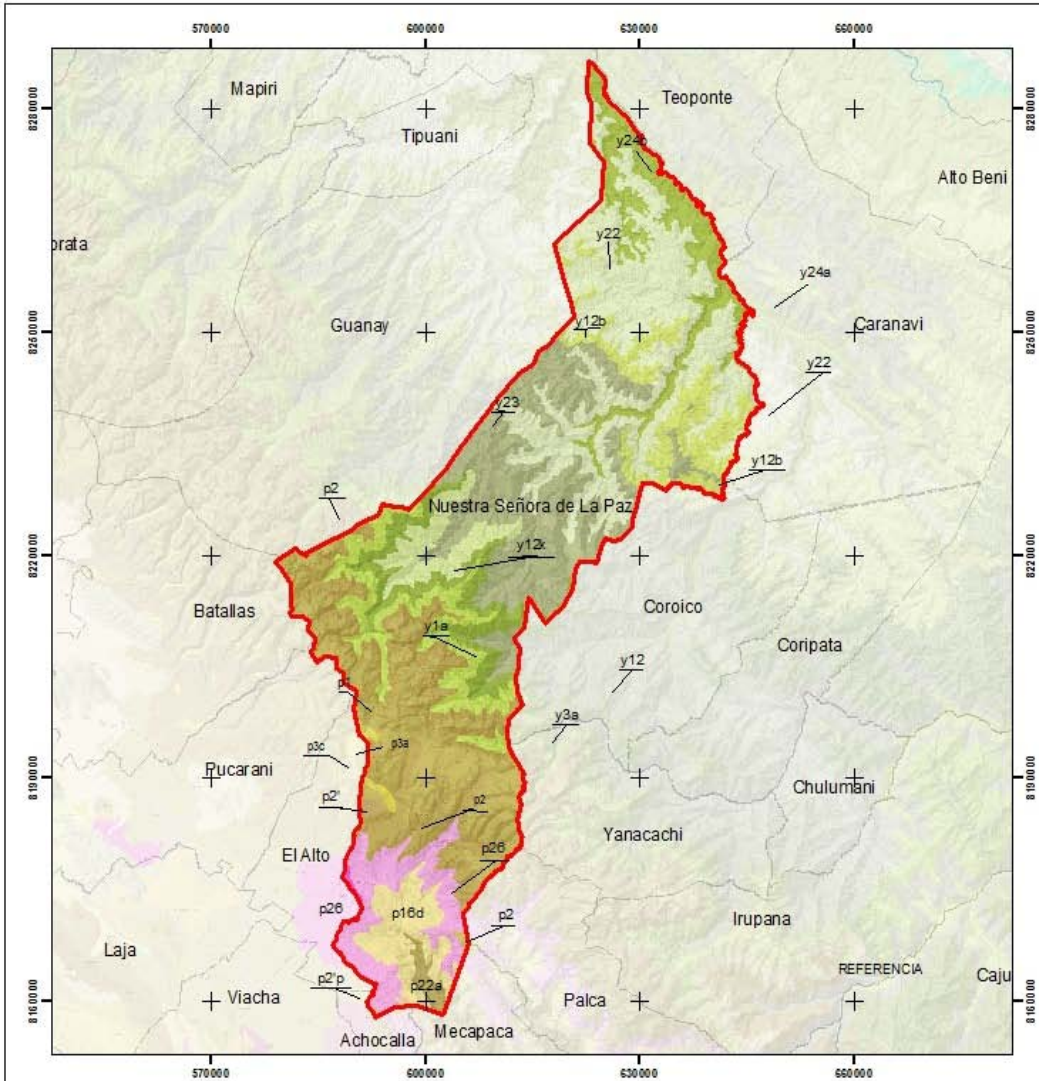
Las Paz Municipality



Distritos	Superficie ha	Poblacion 2006
Urban Districts	27417.6	789.585
Zongo Rural District	227821.5	3.707
Hampaturi Rural District	227821.5	



GOBIERNO AUTÓNOMO MUNICIPAL DE LA PAZ
MAPA DE VEGETACION



Biodiversity

- 21 vegetation units (Navarro 2003)

Urban area

- 900 species of vascular plants
- 136 species of birds
- 38 species of mammals
- At least 5 species of reptiles and 7 especies de anfibios

Rural area (Zongo)

- 3000 plants species, 7 are endemic *Pycnophyllopsis keraiopetala*, *Baccharis glomerata*, *B. zongoensis*, *Philibertia zongoensis* (Beck y Paniagua, 2010)
- 450 bird species (Martinez 2010)
- 19 amphibian species, 5 endemic *Telmatobius bolivianus*, *Oreobates zongoensis* y *Pristimantis bisignatus* (Cortez 2009).

LEYENDA ver anexo 1

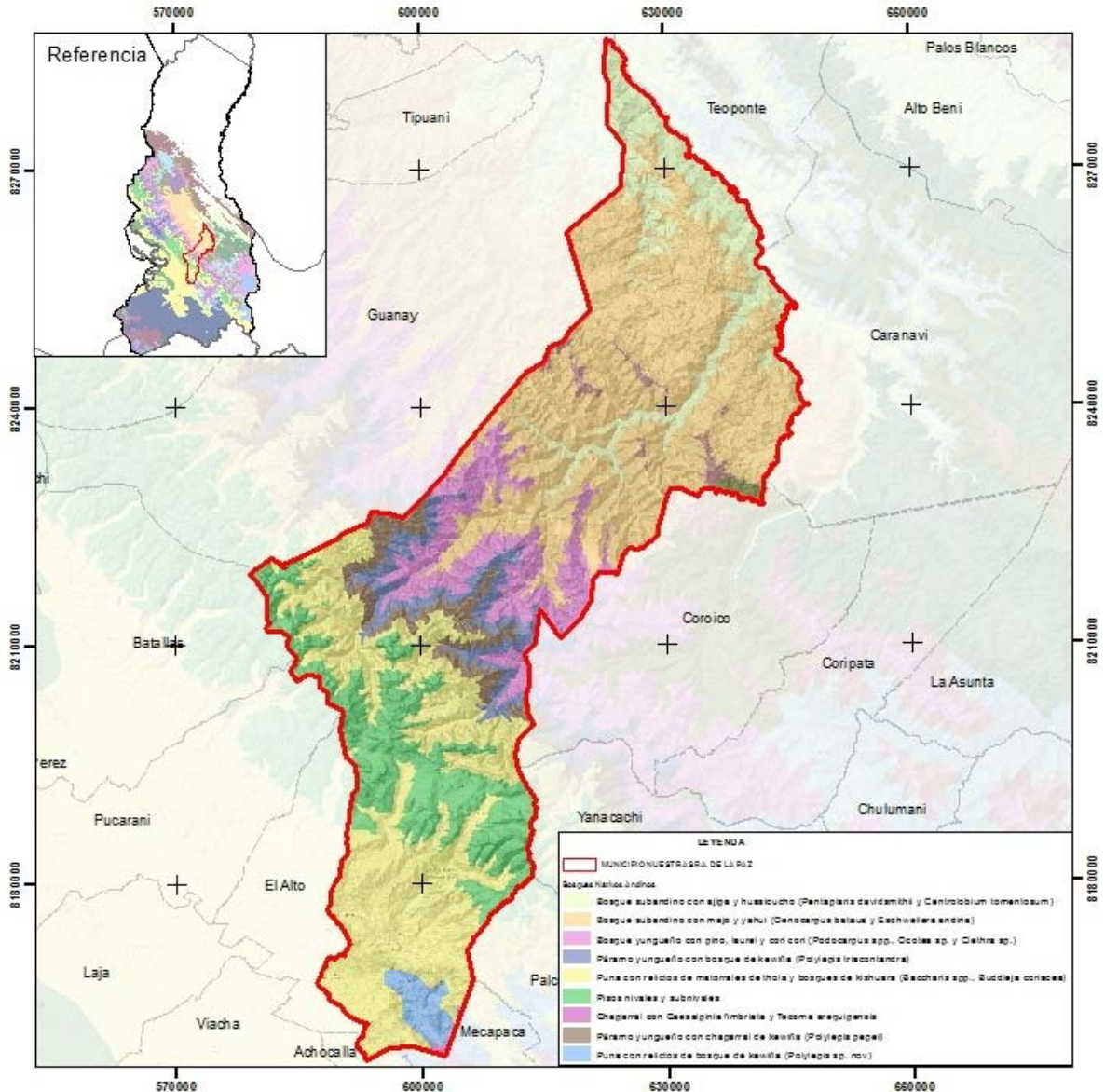
Fuentes: MAPA DE VEGETACION DE BOLIVIA (Gonzalo Navarro y Wanderley Ferreira 2007)

Demanda Limite Municipal- Direccion de Ordenamiento Territorial- Unidad de Limites



Andean Forests

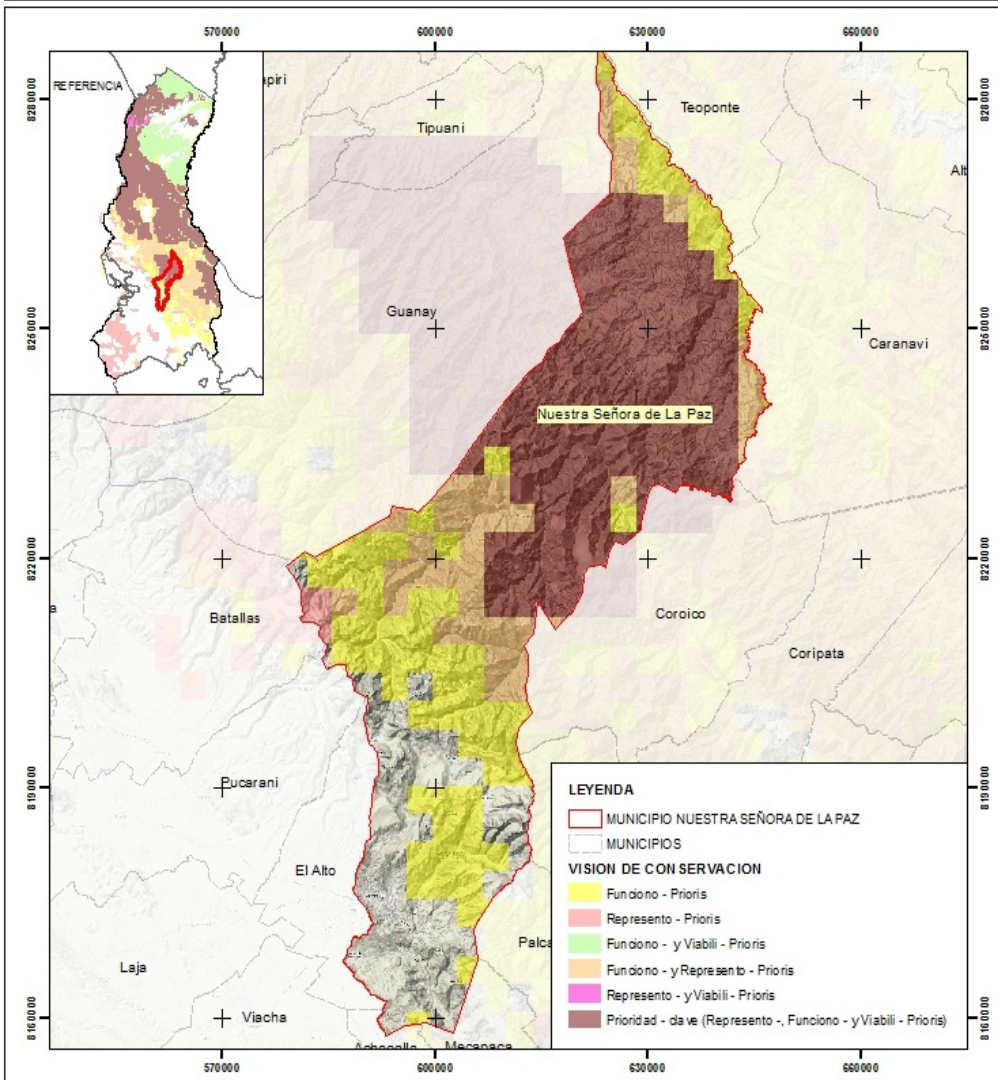
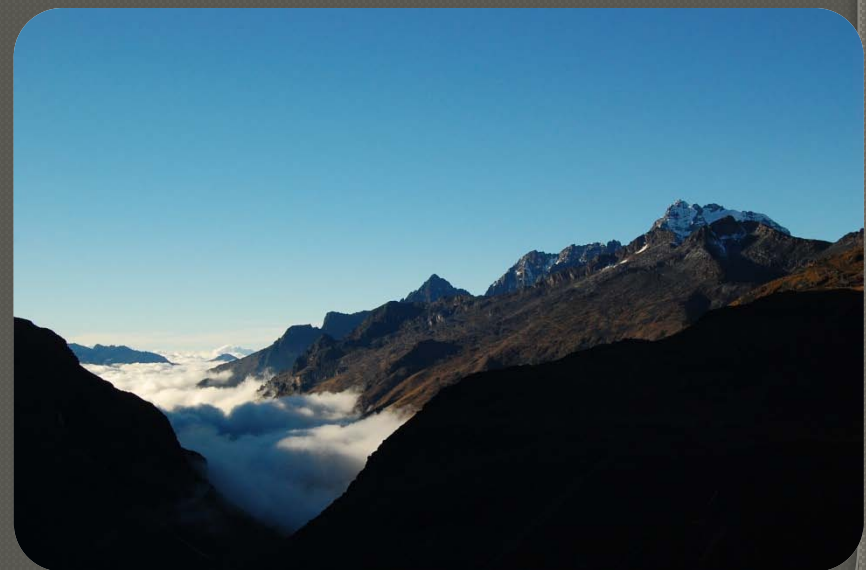
- 9 units of andean native forests



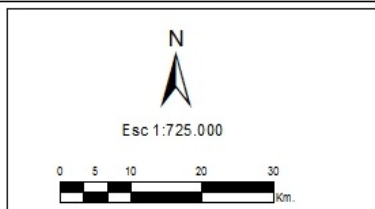
GOBIERNO AUTÓNOMO MUNICIPAL DE LA PAZ
**MAPA DEL MUNICIPIO NUESTRA SEÑORA DE LA PAZ
 Y AREAS CON VISION DE CONSERVACION (GAP-SERNAP)**

ZONGO

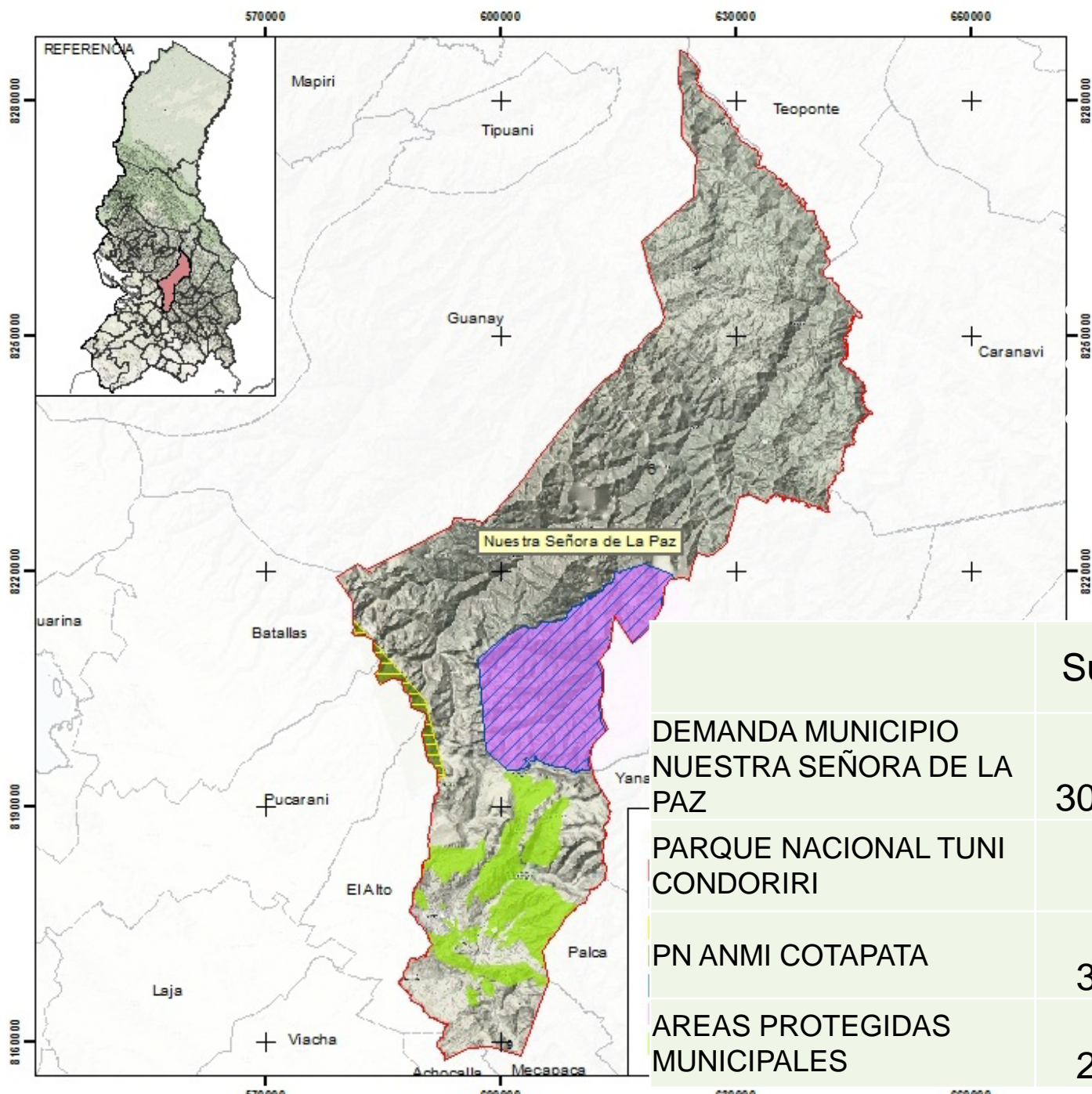
- Zongo is within the key priority areas for conservation nationwide (SERNAP 2010).
- Carbon Stock (REDD+??)



Sistema de Referencia: WGS 84
 Sistema de Proyección: UTM
 Zona: 19 Sur



Fuente: Vision de Conservacion - GAP-SERNAP
 Demanda Limite Municipio Nuestra Señora de La Paz - Direccion de Ordenamiento Territorial, Unidad de Limites

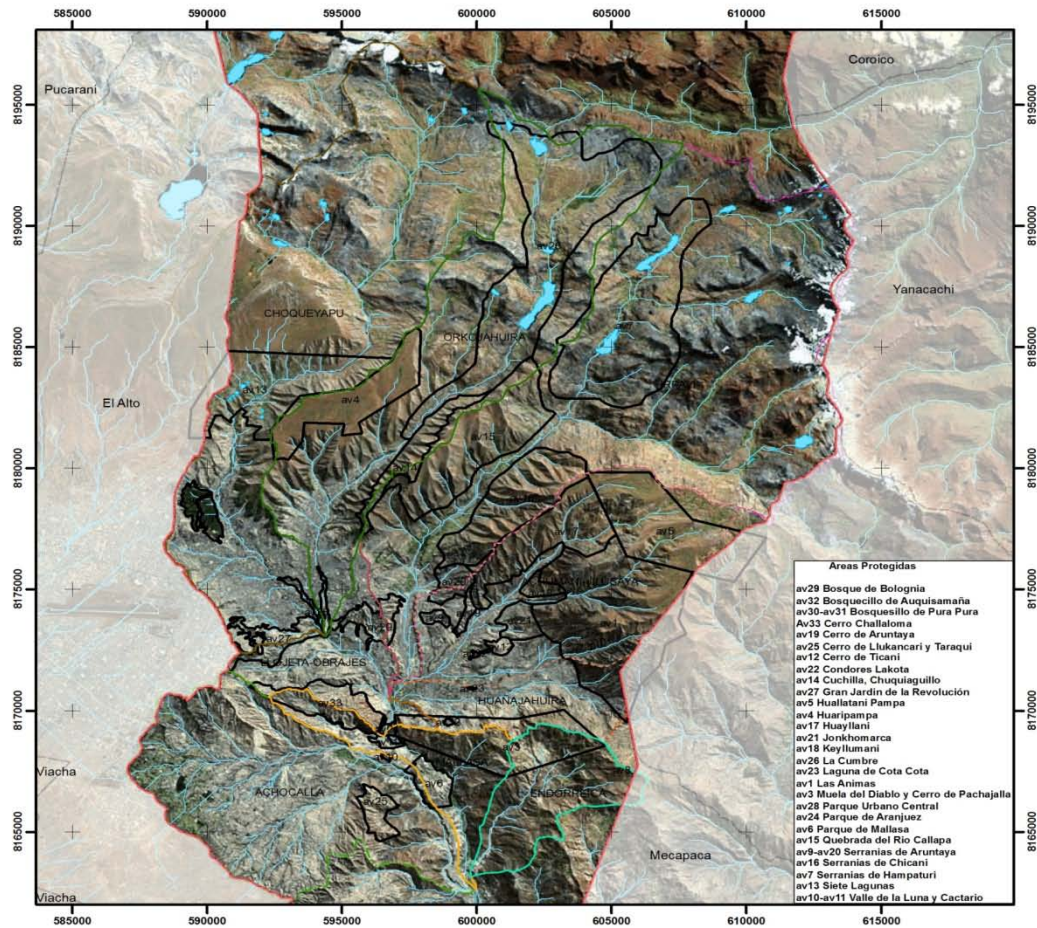


Protected areas in the Municipality

27 AP Municipales
 1 AP Departamental
 1 AP Nacional

	Sup. Ha	%	Total %
DEMANDA MUNICIPIO NUESTRA SEÑORA DE LA PAZ	300433.47	100	
PARQUE NACIONAL TUNI CONDORIRI	3337.39	1.1	
PN ANMI COTAPATA	33642.87	11.2	19.1
AREAS PROTEGIDAS MUNICIPALES	20525.27	6.8	

GOBIERNO AUTÓNOMO MUNICIPAL DE LA PAZ
**MAPA HIDROGRAFICO Y LAS 27 AREAS PROTEGIDAS
 MUNICIPALES DEL MUNICIPIO NUESTRA SEÑORA DE LA PAZ**



- Áreas Protegidas**
- av29 Bosque de Bolognia
 - av32 Bosquecillo de Auquisamaña
 - av30-av31 Bosquesillo de Pura Pura
 - av33 Cerro Challaloma
 - av19 Cerro de Aruntaya
 - av25 Cerro de Lukancari y Taraqui
 - av12 Cerro de Ticani
 - av22 Condores Lakota
 - av14 Cuchilla, Chuquiaguillo
 - av27 Gran Jardín de la Revolución
 - av5 Huallatani Pampa
 - av4 Huaripampa
 - av17 Huayllani
 - av21 Jonkhomarca
 - av18 Koyllumani
 - av26 La Cumbre
 - av23 Laguna de Cota Cota
 - av1 Las Animas
 - av3 Muela del Diablo y Cerro de Pachajalla
 - av28 Parque Urbano Central
 - av24 Parque de Aranjuez
 - av6 Parque de Mallasa
 - av15 Quebrada del Río Callapa
 - av9-av20 Serranías de Aruntaya
 - av16 Serranías de Chicani
 - av7 Serranías de Hampaturi
 - av13 Siete Lagunas
 - av10-av11 Valle de la Luna y Cactario

LEYENDA

- DEMANDA LIMITE MUNICIPIO NUESTRA SEÑORA DE LA PAZ
- AREAS PROTEGIDAS MUNICIPALES
- CUENCAS HIDROGRAFICAS
- IRPAVI
- HUAÑAJAHUIRA
- ACHOCALLA
- ACHUMANI-JILUSAYA
- CHOQUEYAPU
- FUNDAMENTALES
- ACHOCALLA
- ACHORREICA
- LLOJETA-OBRAJES
- MALLASA
- ORKOJAHUIRA
- Rios_Menores

Fuentes: Vías Fundamentales y Secundaria - Instituto Nacional de Estadística
 Demanda Límite Municipal - Dirección de Ordenamiento Territorial-Unidad de Límites
 Áreas Protegidas - Dirección de Ordenamiento Territorial (GMALP)

N

Esc 1:200.000

0 0.5 1 2 3 4 5 Km

Sistema de Referencia: WGS 84
 Sistema de Proyección: UTM
 Zona: 19 Sur

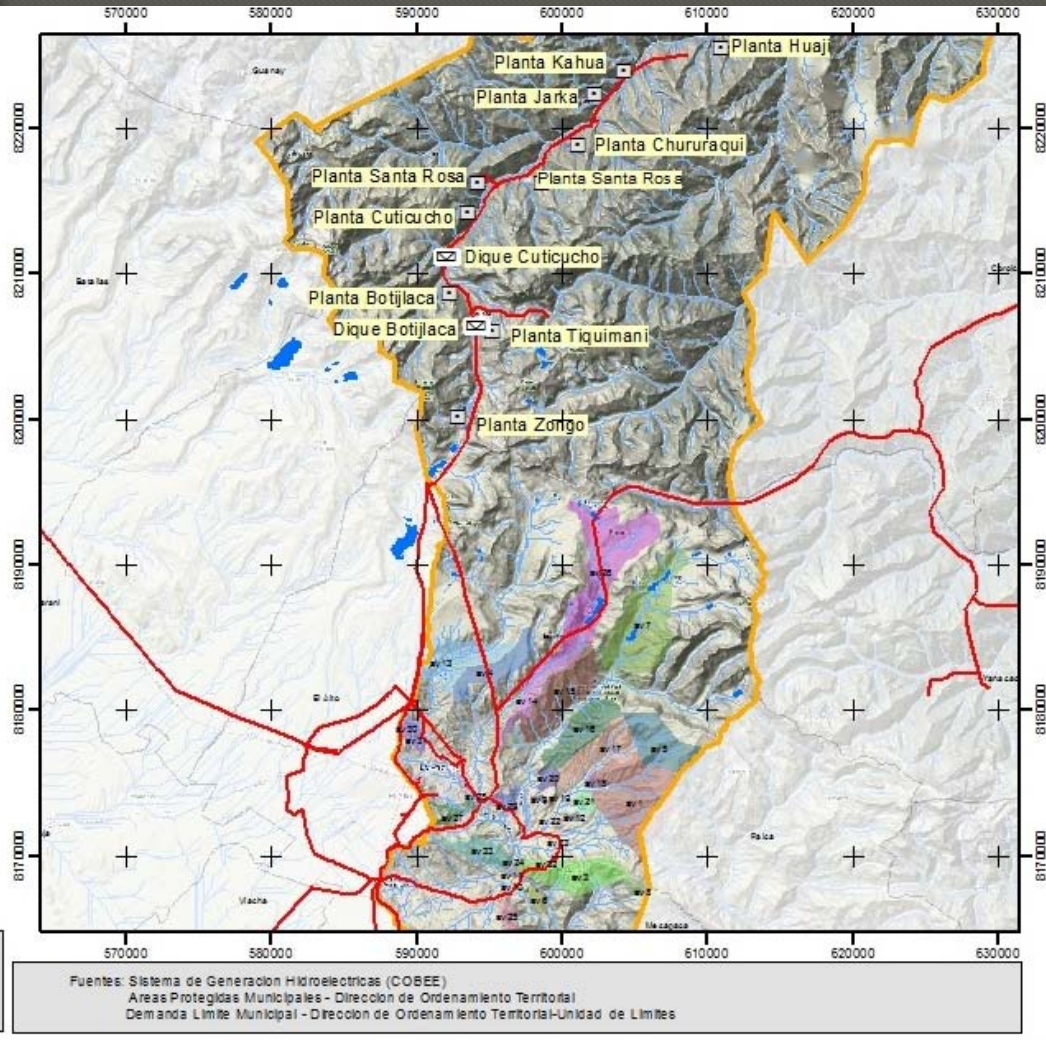
Recursos Hídricos

Basins of the rivers Orkojahuirra, Irpavi, Achumani and Huayñajahuirra born in the rural district of Hampaturi.

This shows the enormous importance of this region to supply water to the city of La Paz around 60%



Electric generation comes from Zongo valley



Treaths and pressures

- Mining and aggregates in AP
- Illegal settlements in urban and rural AP
- Changing land use
- Boundary Disputes
- Loteamientos



Municipal Protected Areas System

- ◉ Created in 2000
- ◉ Why it didn't work?
- ◉ Same mistakes → paper protected areas, no consultation with local communities, no capacities in the municipal government, no articulation with others territorial plans

Opportunities

- ◉ Autonomous Municipal Government of La Paz is working in a 28 years Development Plan called La Paz 2040
- ◉ One of the main objectives of this plan is to achieve innovative conservation mechanisms for de sustainable use of the ecosystems services

Action Plan for Municipal System of Integral Conservation Areas

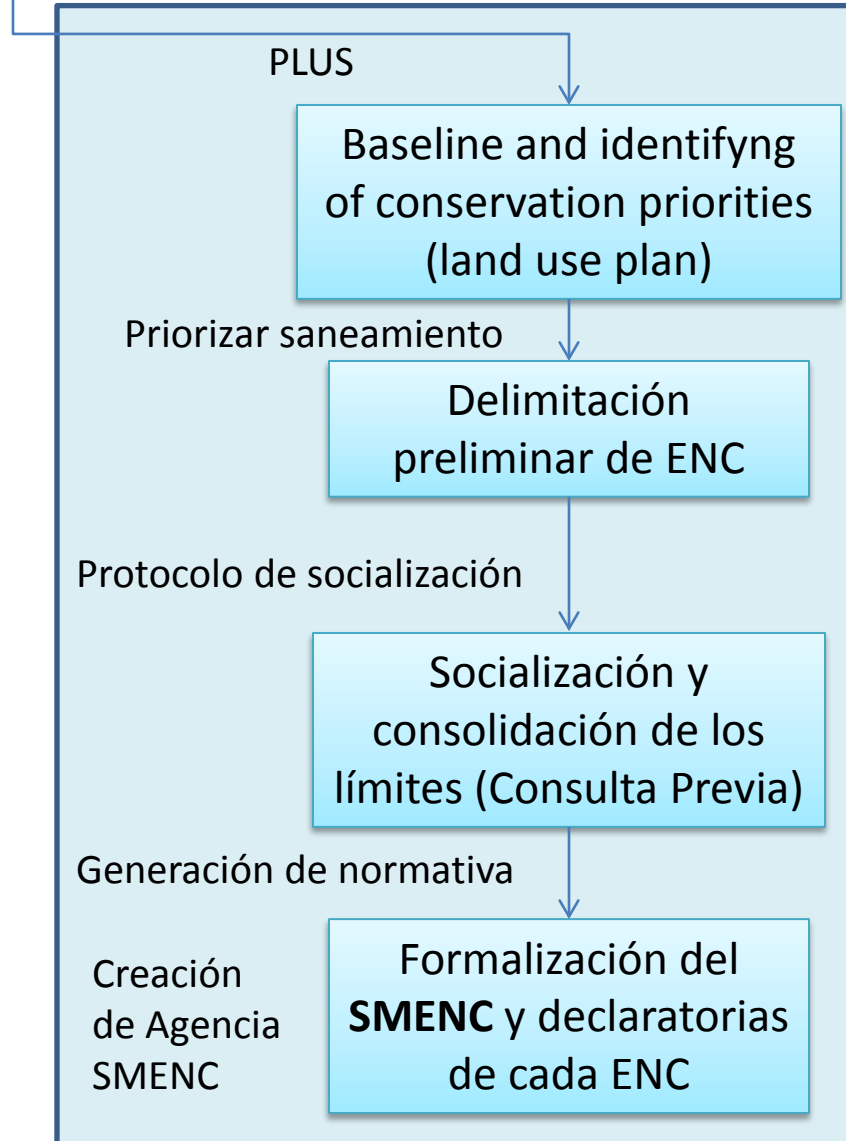
Why integral conservation areas?

- Misunderstanding of the concept of AP
Conservation can be implemented outside AP
- The concept of space is according to a comprehensive land management
- Allows you to restart a job with the consensus of the community

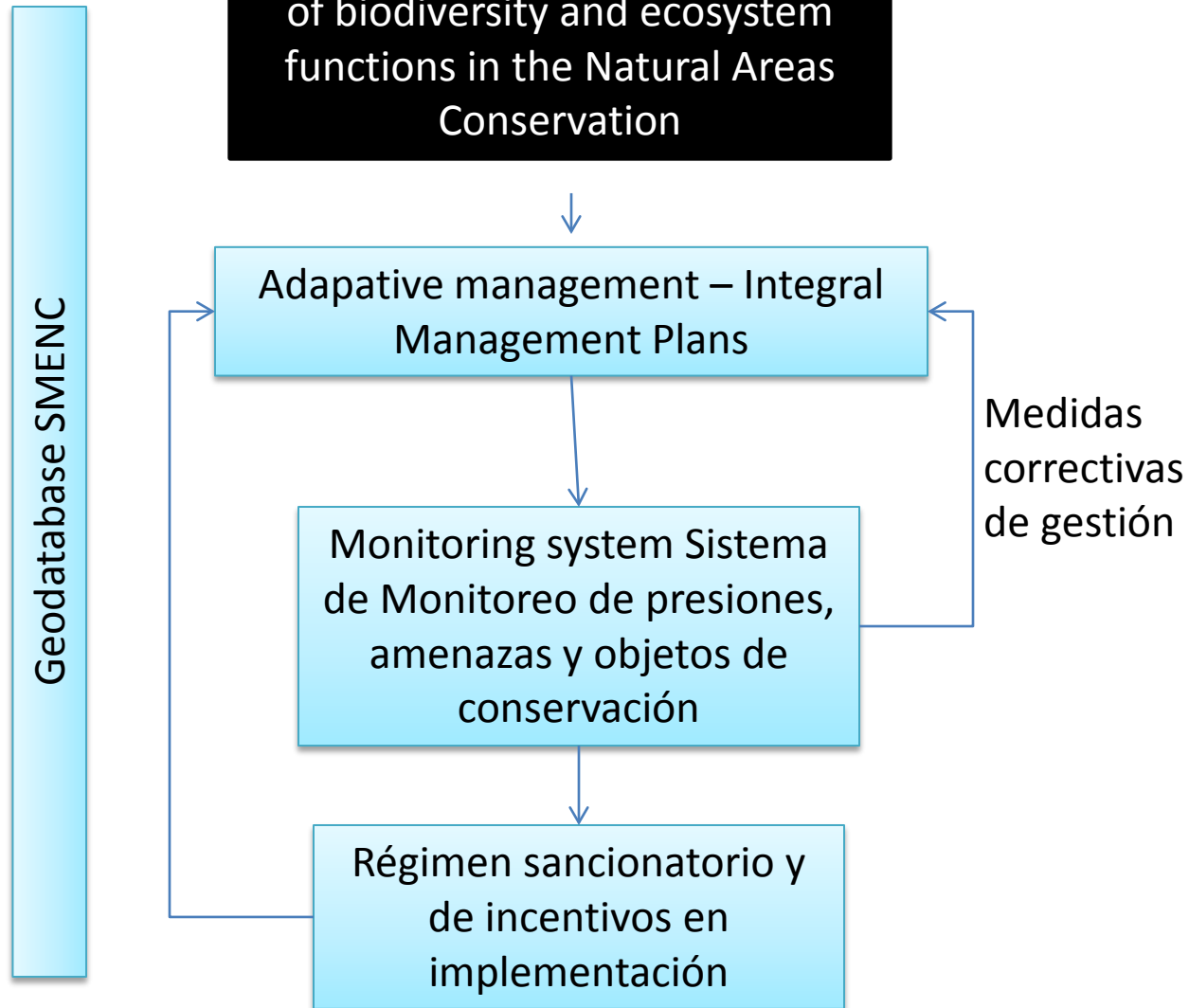
Guidelines

- L1. Establishment of the Municipal System of Natural Areas Conservation (SMENC)
- L2. Comprehensive management of biodiversity and ecosystem functions in the Natural Areas Conservation
- L3. Finance and activities to combat Climate Change
- L4. Promotion and citizen empowerment SMENC

L1. Establishment of the Municipal System of Natural Areas Conservation (SMENC)



L2. Comprehensive management of biodiversity and ecosystem functions in the Natural Areas Conservation



L3. Finance and activities to combat Climate Change

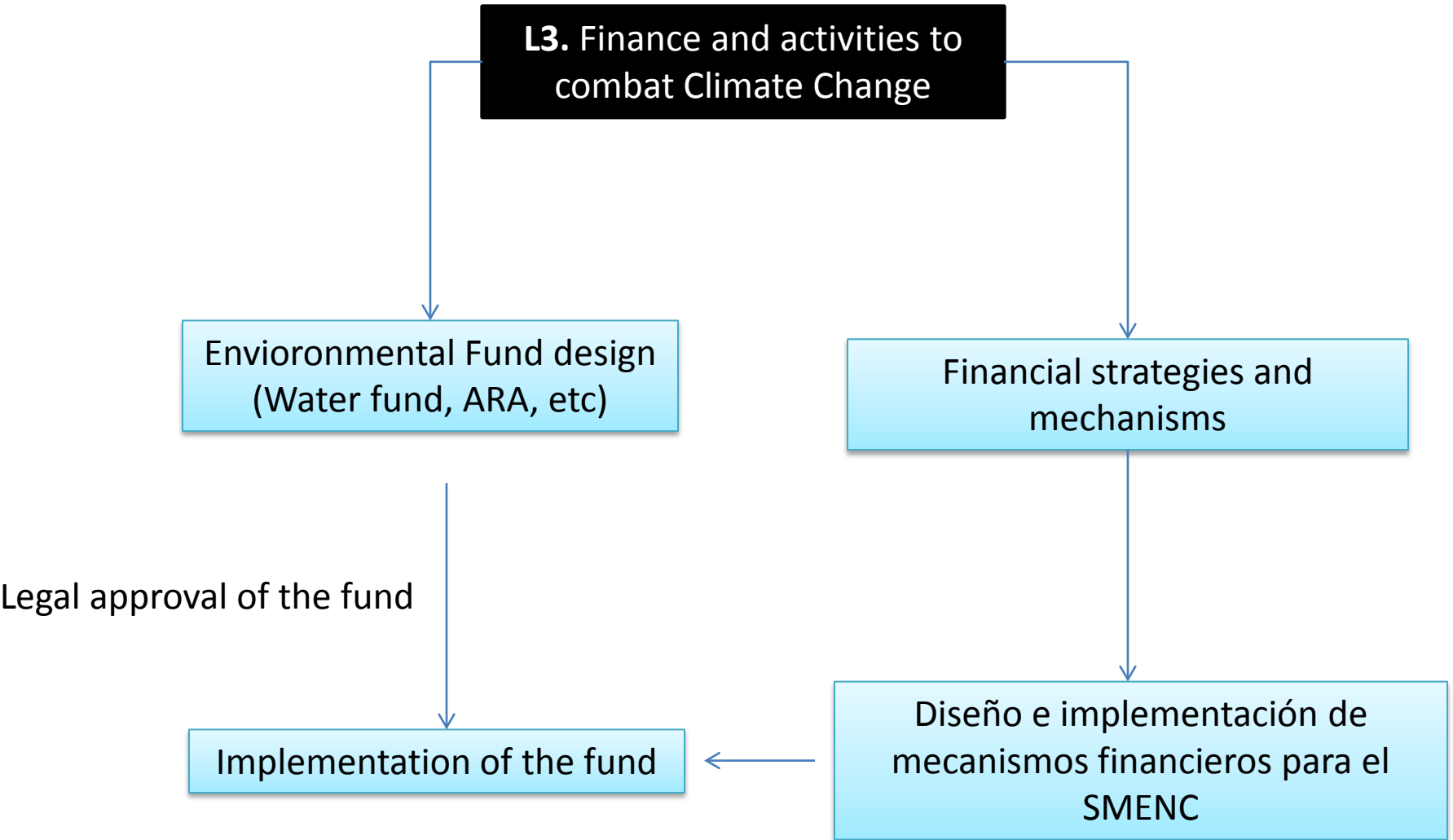
Environmental Fund design
(Water fund, ARA, etc)

Financial strategies and
mechanisms

Legal approval of the fund

Implementation of the fund

Diseño e implementación de
mecanismos financieros para el
SMENC



L4. Promotion and citizen empowerment

Investigaciones ,
metodologías y alianzas

Environmental, social and economic
valuation of the conservation areas

Design of a communication
strategy for SMENC

Measurement mechanism of
perception and financial readiness
of the population to contribute to
the conservation

Retroalimentación
(comunicacional y
financiera)



Gracias por su
atención

Niveles de la Gestión Compartida

NATIONAL

Central Government
MMAyA, Viceministerio,
SERNAP

Social Organization
CIDOB, CONAMAQ, CSUTCB, CSCIB, CNMI-BS

REGIONAL

Department
governments

ORGANIZACIONES SOCIALES
Org. sociales regionales se articulan con las
estructuras nacionales y locales (ejm. Jach'a
Karangas en Sajama y CPEMB con TIPNIS)

LOCAL

Municipal or
indigenous
government

SERNAP, Gobernaciones,
Gov. Municipales

ORGANIZACIONES SOCIALES
Todas las organizaciones comunales con derechos
territoriales del AP