

UNITED NATIONS
BIOSPHERE RESERVE
*SERVING AS AN INTERNATIONAL
EXAMPLE OF MARINE
CONSERVATION AND STEWARDSHIP
IN A URBAN ENVIRONMENT*

Greater Farallones National Marine Sanctuary Advisory Council Meeting
May 24, 2017

Karen Reyna, Daphne Hatch, Stephen Skartvedt

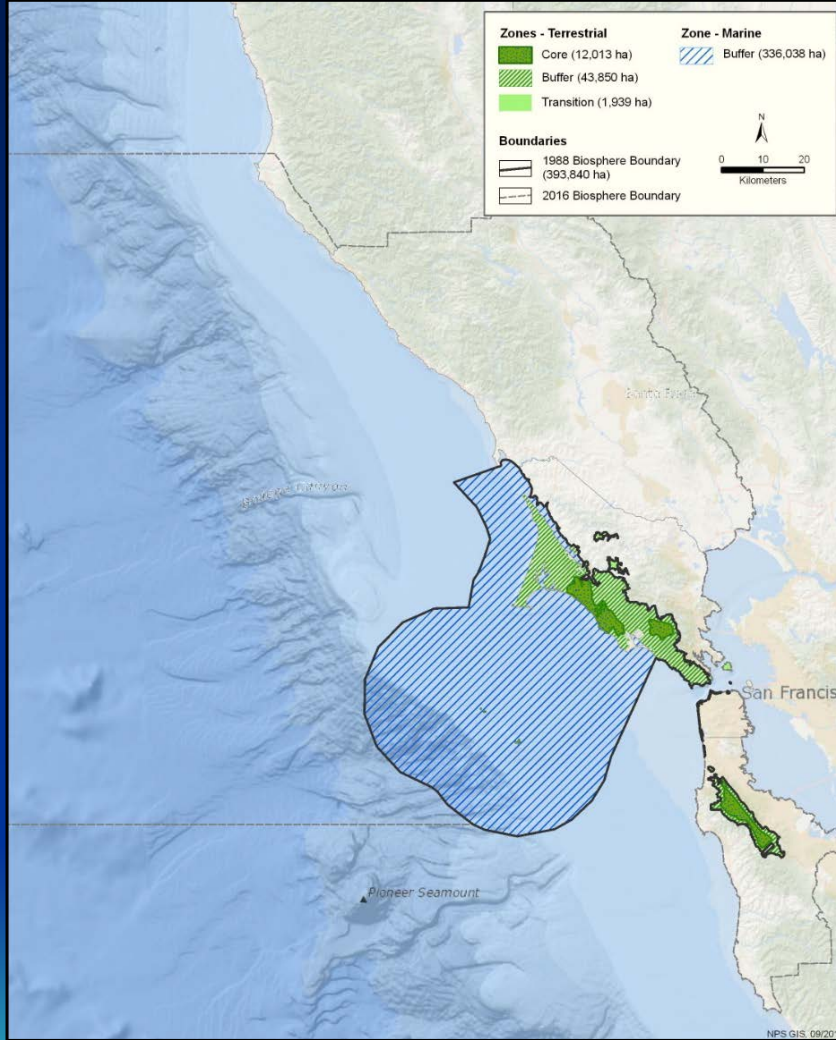


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Man and
the Biosphere
Programme

1988 Extent ~ Golden Gate Biosphere Reserve



- 1,520 sq. mi.
Total area
- 1,297 sq. mi.
Marine
- 223 sq. mi.
Terrestrial



~28,000 sq mi of Land and Sea ~ the Golden Gate Biosphere

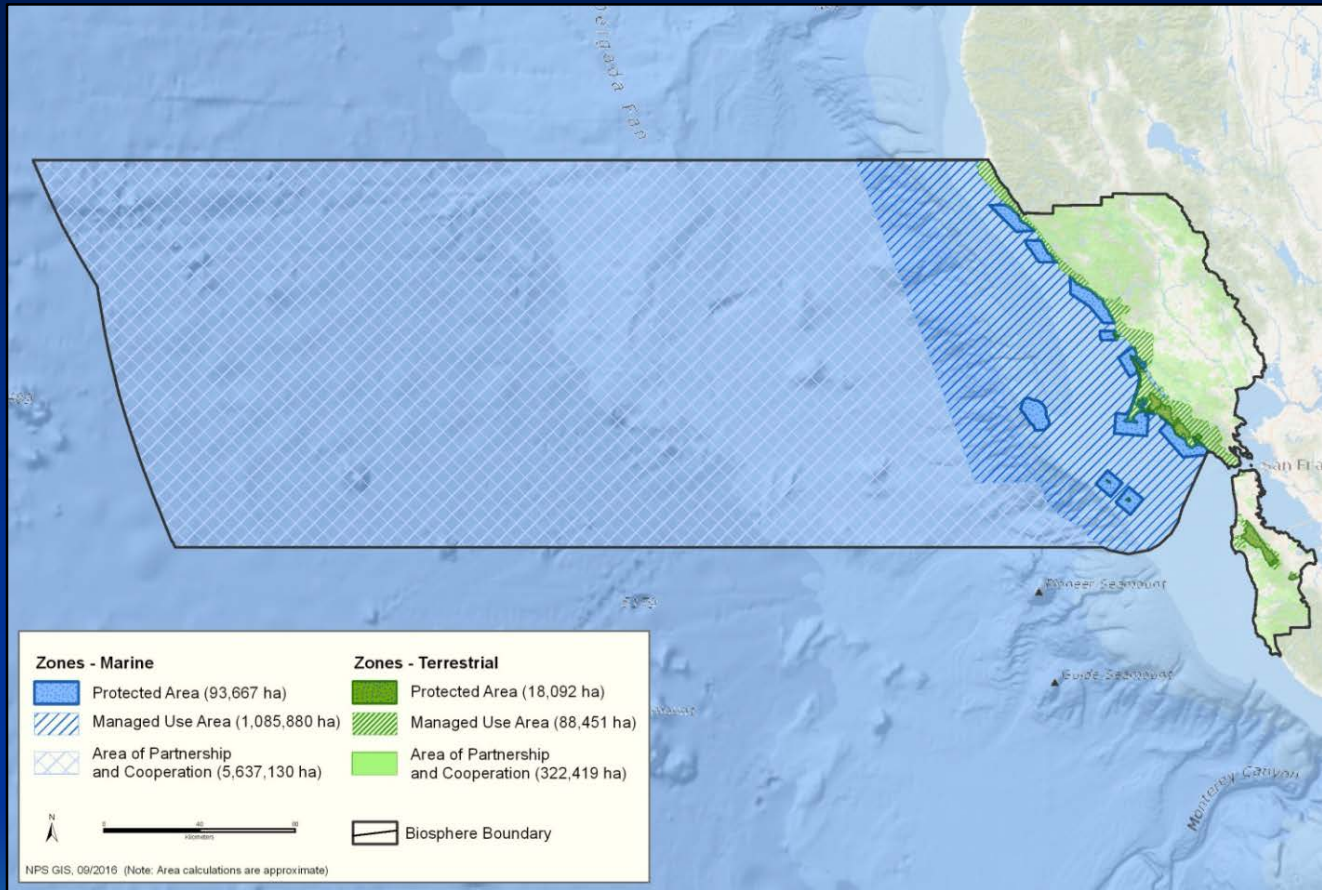


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2017 Extent ~ Golden Gate Biosphere



- 27,976 sq. mi. Total area
- 26,319 sq. mi. Marine
- 1,694 sq. mi. Terrestrial



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Status: Designated a biosphere reserve by UNESCO's Man and the Biosphere Program in 1988

First Periodic Review: 2013,
Resubmitted 2016

Periodic Review

Sent to US Dept. of State:
September 25, 2016

UNESCO review:
Winter 2016/Spring 2017

EUROMAB Meeting
April 2017

UNESCO decision:
June 2017

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World Network of Biosphere Reserves

of the Man and the Biosphere (MAB) Programme

669 biosphere reserves in 120 countries

We are part of a dynamic and interactive network of sites of excellence that fosters the harmonious integration of people and nature for sustainable development

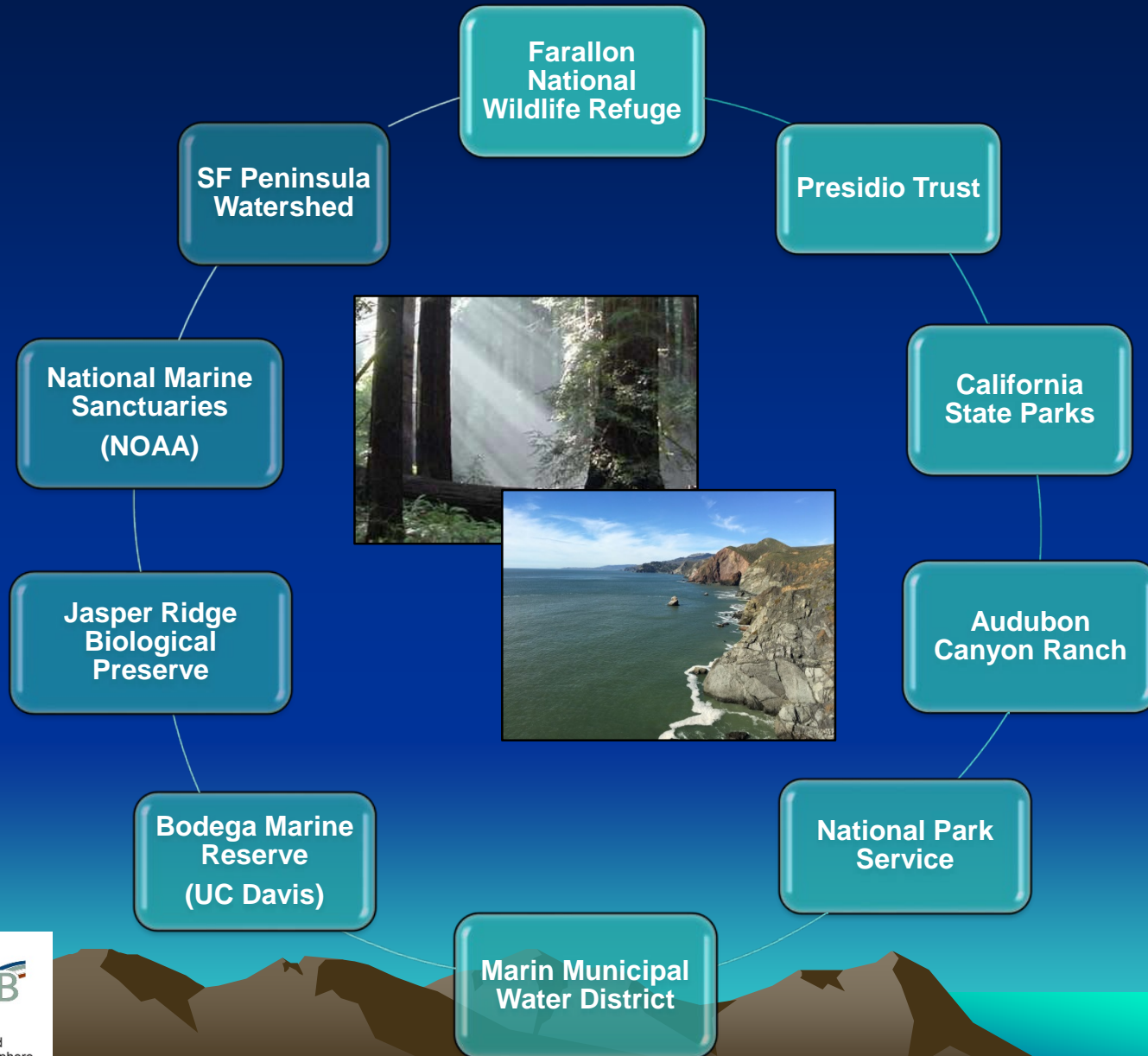


Three zones, three functions, one biosphere reserve!

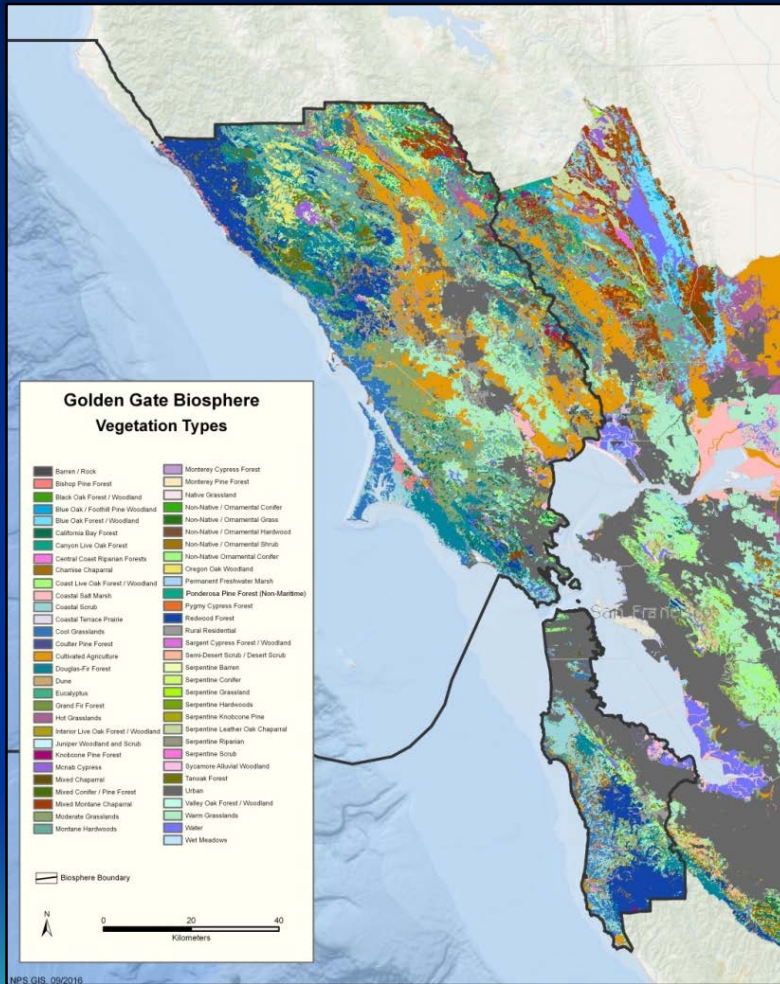
- **Core area(s)** = strictly protected ecosystems contributing to the conservation of landscapes, ecosystems, species and genetic variation (Protected Areas)
- **Buffer zone** = surrounds or adjoins the core areas, and is used for activities compatible with sound ecological practices that can reinforce scientific research, monitoring, training and education (Managed Use Areas)
- **Transition area** = where the greatest activity is allowed, fostering socio-culturally and ecologically sustainable economic and human development (Area of Partnership and Cooperation)



Managers of Protected and Managed Use Areas



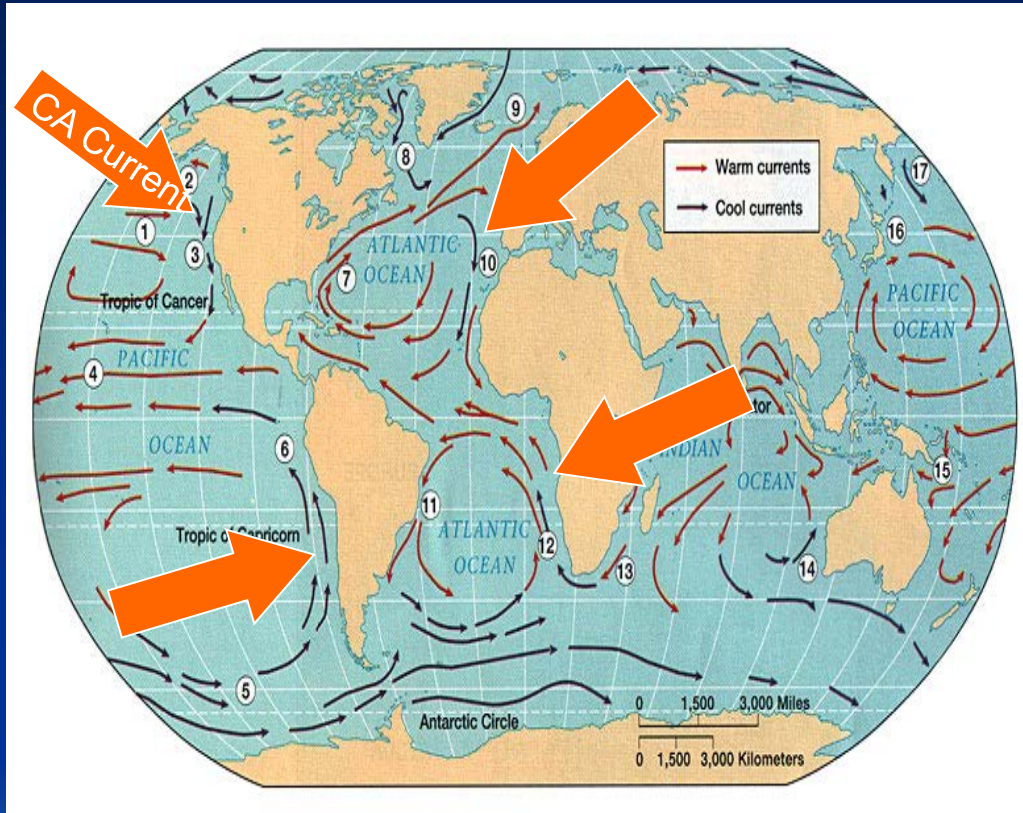
Meeting the 3 functions of a biosphere reserve: (1) Conservation of Biodiversity



- **Biodiversity hotspot – California Floristic Province**
- Biodiversity Hotspot - Within 1 of only 4 Eastern Boundary Currents in the World
- 4 Ramsar Wetlands of International Importance
- 57 T&E species
- >3000 terrestrial and marine plant and animal species



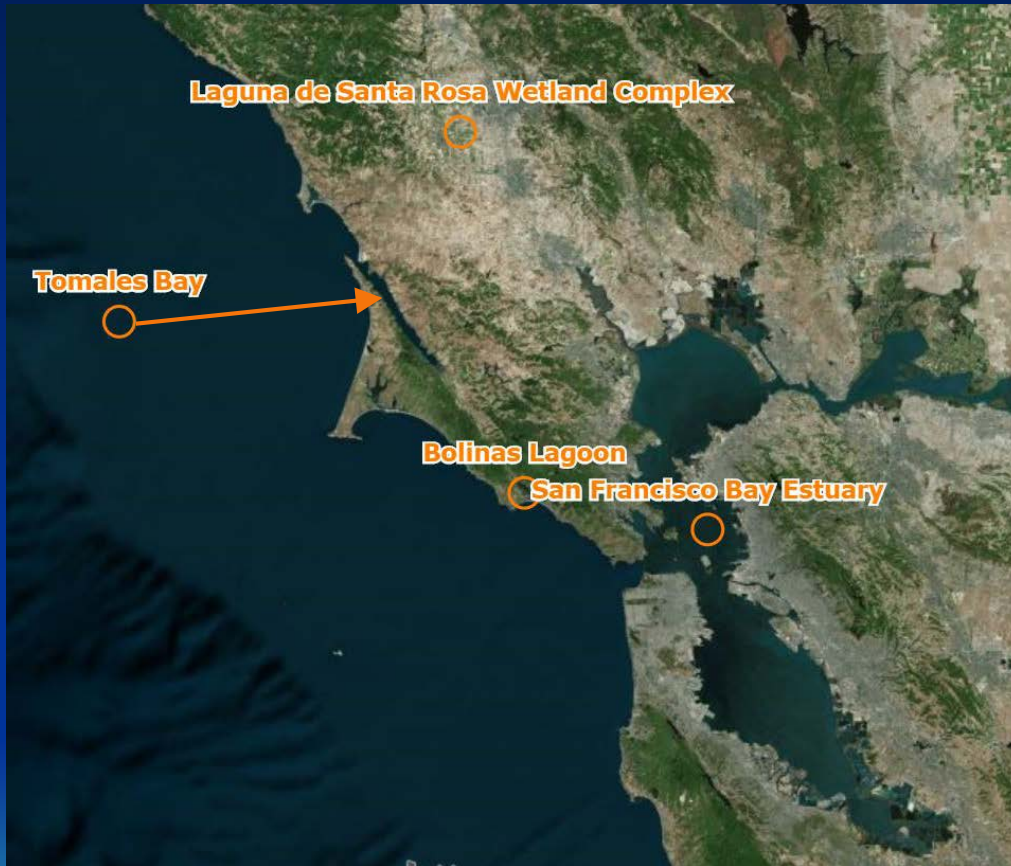
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(2) Research, monitoring, education

- Applied California Current Ecosystem Studies (ACCESS Partnership)
- North Central Coast Marine Protected Areas Baseline Program
- Ocean Climate Indicators Inventory and Monitoring Program
- NPS Inventory and Monitoring Program
- Jasper Ridge Global Change Experiment
- Over 250 institutions conducting research
- Over 75,000 youth served in education, outreach and internship programs

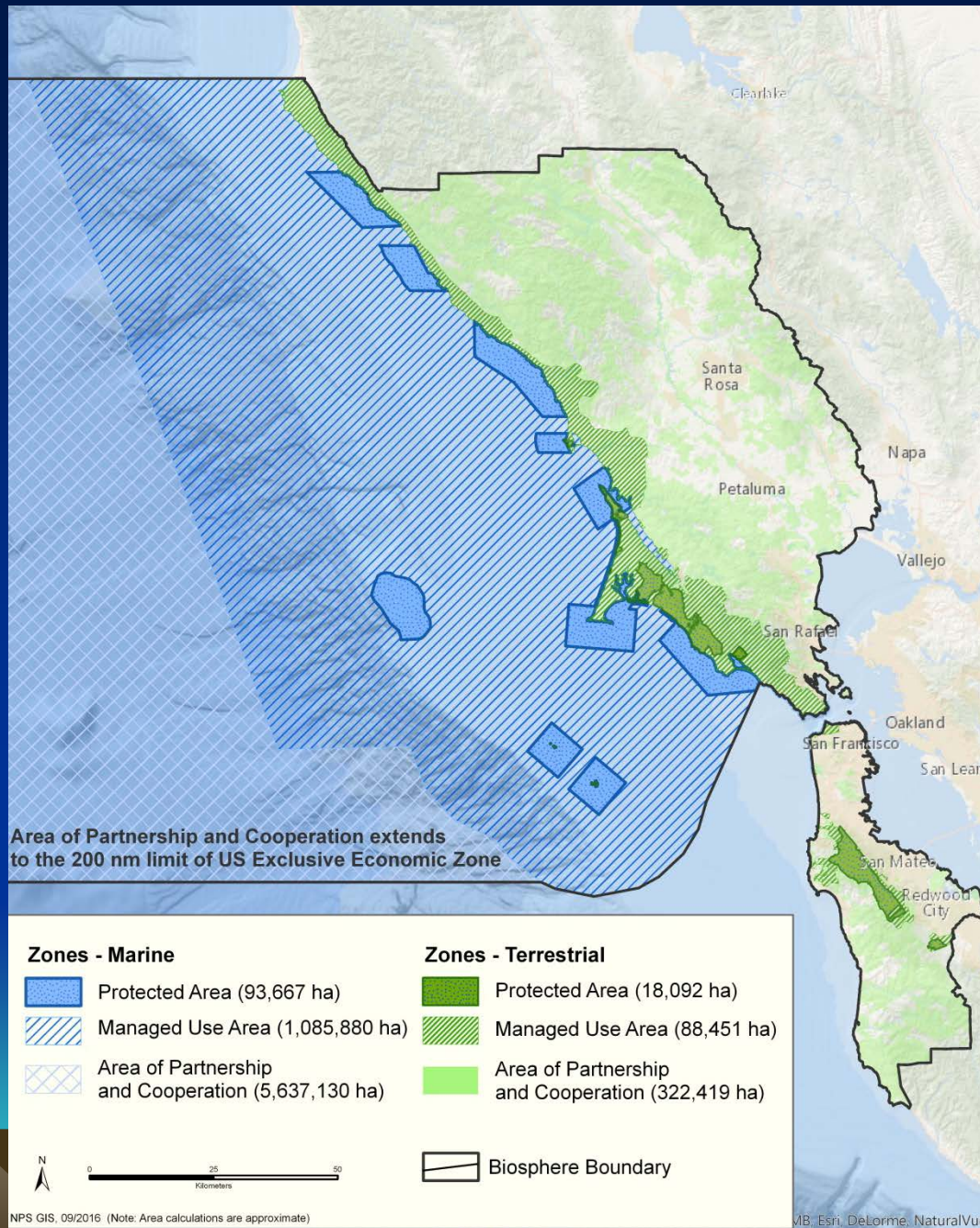


(3) Sustainable development in Managed Use Areas

- Tourism and recreation
- Agriculture – beef and dairy ranching, farm stays, small-scale chicken and egg production, aquaculture
- Domestic water supply
- Commercial and recreational fishing
- Marine commerce – managing shipping lanes
- Presidio Trust innovative community development
- Sustainable Alcatraz
- Renewable energy, energy conservation and efficiency, green buildings, reduction in fossil fuel use, water conservation, recycling, composting and waste diversion

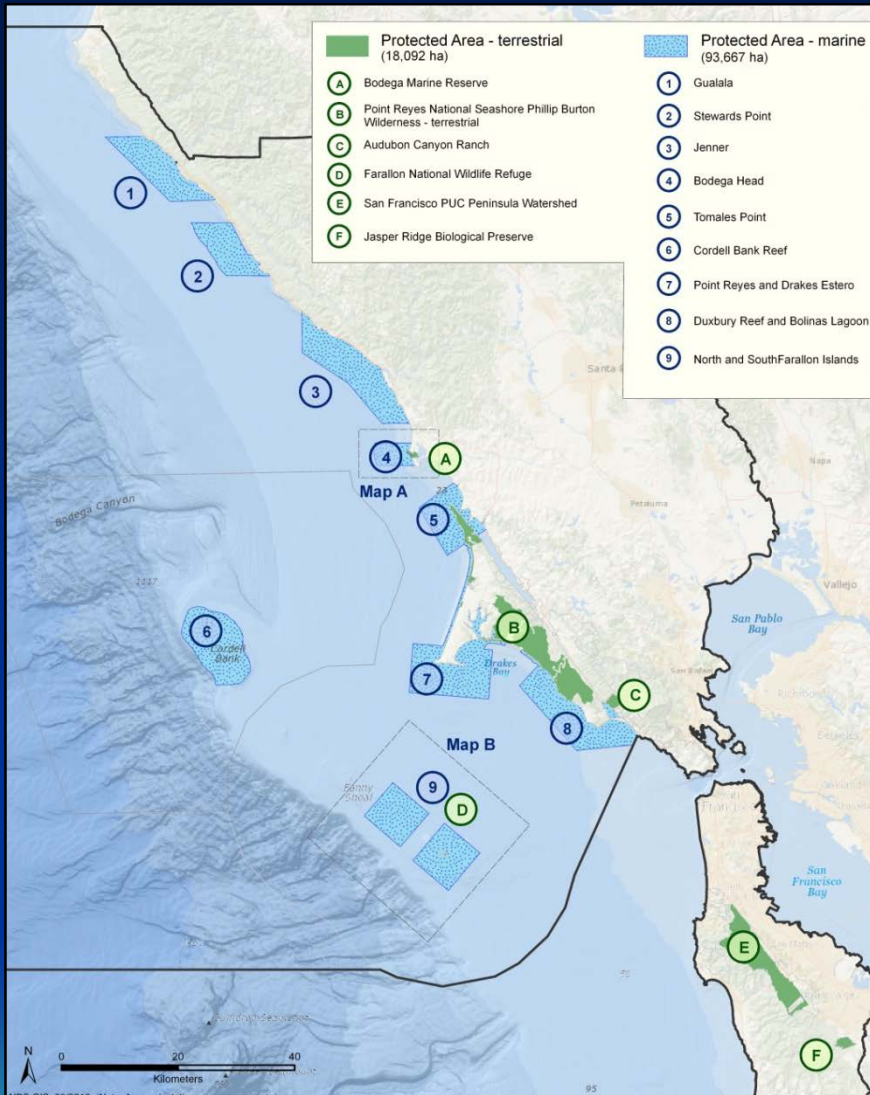
Golden Gate Biosphere

2017 zonation map



Terrestrial Protected Areas (Core)

Bodega Marine Reserve
Phillip Burton Wilderness (PRNS)
Audubon Canyon Ranch
Farallon National Wildlife Refuge
Peninsula Watershed (SFPUC)
Jasper Ridge Biological Preserve



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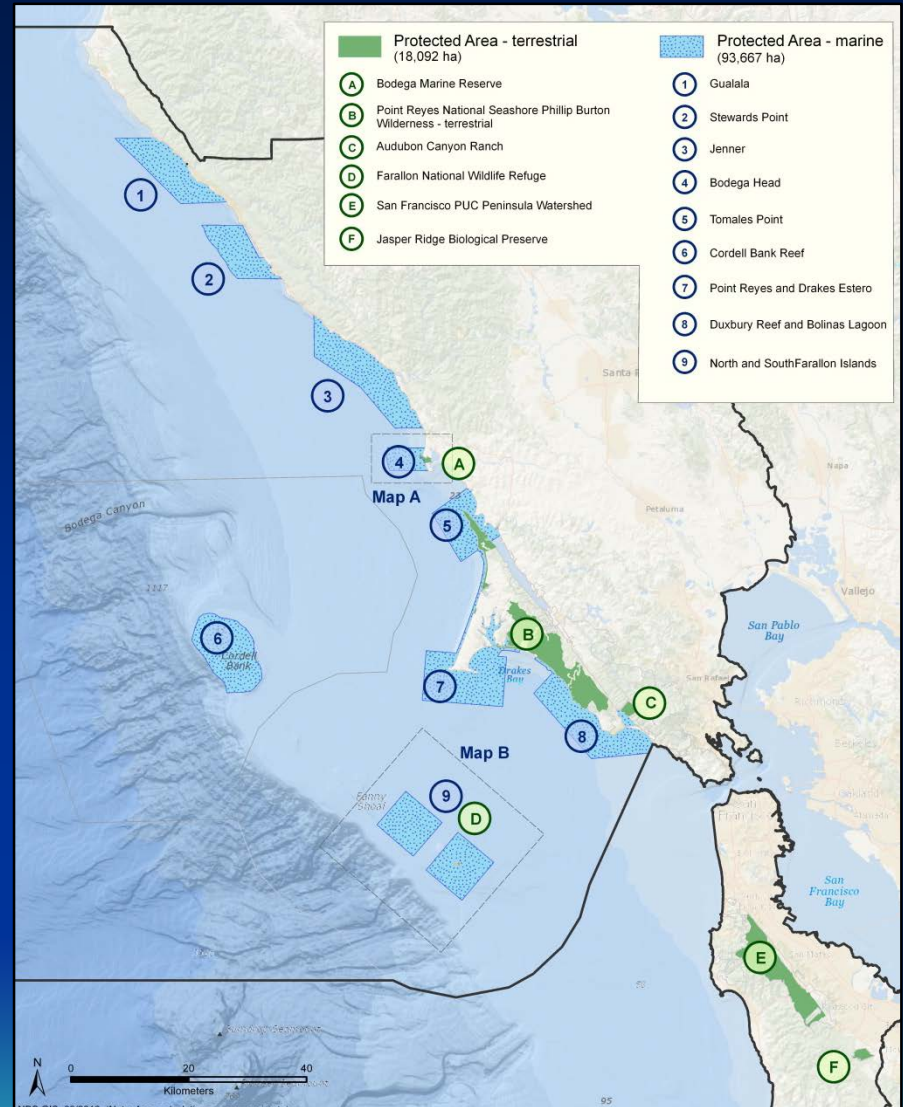


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Marine Protected Areas (Core) include:

- Cargo vessel exclusion areas
- Overflight Zones
- White Shark No-approach areas
- Essential Fish Habitat “no bottom contact gear” area
- California State Marine Reserves
- California Special Closures
- California Areas of Special Biological Significance
- NPS Wilderness

Terrestrial + Marine Protected Areas (Core) is 432 sq miles



Our Vision for the next 10 years

We collaboratively manage the incredibly diverse and globally significant resources of the North-Central California coastal bioregion that constitute the biosphere, where land, sea and people interact within the greater San Francisco Bay area and promote opportunities for inspiration, education, research, recreation, and conservation of unique natural and cultural resources.



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Golden Gate Biosphere ~ Goals 2016-2026

- *Increase collaborative partnerships across the breadth of our land and seascape in order to engage a broader range of stakeholders and the general public.*



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GG Biosphere ~ Goals 2016-2026

- *Build awareness and name recognition of the Golden Gate Biosphere so that people understand the global context within which they live, work and recreate.*

Example: We will develop a new logo...maybe a stakeholder contest?



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GG Biosphere ~ Goals 2016-2026

- *Integrate the biosphere concept into existing community outreach, education, research, and sustainability programs.*




The screenshot shows the website for the Golden Gate Biosphere, part of the Greater Farallones National Marine Sanctuary. The page features a navigation menu with options like 'Visit Us', 'Get Involved', 'Learn', 'Protect', 'Heritage', 'Science', 'Manage', 'Multimedia', 'News', and 'About'. Below the navigation is a breadcrumb trail: 'HOME / MANAGEMENT / GOLDEN GATE BIOSPHERE'. The main heading is 'Golden Gate Biosphere', followed by a wide landscape photograph of the Golden Gate Bridge and surrounding hills. Below the photo is a paragraph describing the biosphere's location and diversity. Further down, there are two paragraphs detailing its designation by UNESCO in 1988 and its collaborative management approach. At the bottom, there are links to download a 'Fact Sheet' (PDF, 1.1MB) and a 'Zonation Map' (PDF, 6.7MB), followed by a section for 'Collaborative Partners' listing Audubon Canyon Ranch, Bodega Marine Reserve, and Cordell Bank National Marine Sanctuary.

Greater Farallones National Marine Sanctuary

Visit Us ▾ Get Involved ▾ Learn ▾ Protect ▾ Heritage ▾ Science ▾ Manage ▾ Multimedia ▾ News ▾ About ▾

HOME / MANAGEMENT / GOLDEN GATE BIOSPHERE

Golden Gate Biosphere



Situated in North-Central California, the Golden Gate Biosphere represents a highly diverse complex of terrestrial, coastal, and marine environments. The reserve is complimented by a rich cultural history with lands and waters in Sonoma, Marin, San Francisco, and San Mateo Counties.

Designated in 1988 by the [United Nations Educational, Scientific and Cultural Organization \(UNESCO\) Man and the Biosphere Programme \(MAB\)](#), the Golden Gate Biosphere encompasses urban, multi-use managed areas, and wildlands that include marine and aquatic ecosystems as well as terrestrial ecosystems ranging from evergreen forests (including the iconic and endemic Coast Redwood), oak woodlands, chaparral, coastal scrub and prairies, rare serpentine grasslands, as well as coastal and offshore islands.

Through a collaborative approach, the Golden Gate Biosphere protects the natural and cultural resources of the dynamic North-Central California coastal bioregion through conservation, education, research and monitoring, and sustainable development.

Partnerships between Golden Gate Biosphere land managers and communities adjacent to and within the reserve greatly enhances the adaptive capacity of the ecological and cultural resources here. This alliance also provides a critical network for the coordination of regional and local stakeholder engagement, sustainable development for local economies, and environmental training for current and future leaders.

Download the Golden Gate Biosphere [Fact Sheet](#) (PDF, 1.1MB)

Download the Golden Gate Biosphere [Zonation Map](#) (PDF, 6.7MB)

Collaborative Partners

[Audubon Canyon Ranch](#)
[Bodega Marine Reserve](#)
[Cordell Bank National Marine Sanctuary](#)
[Foster Nature Wildlife Refuge](#)

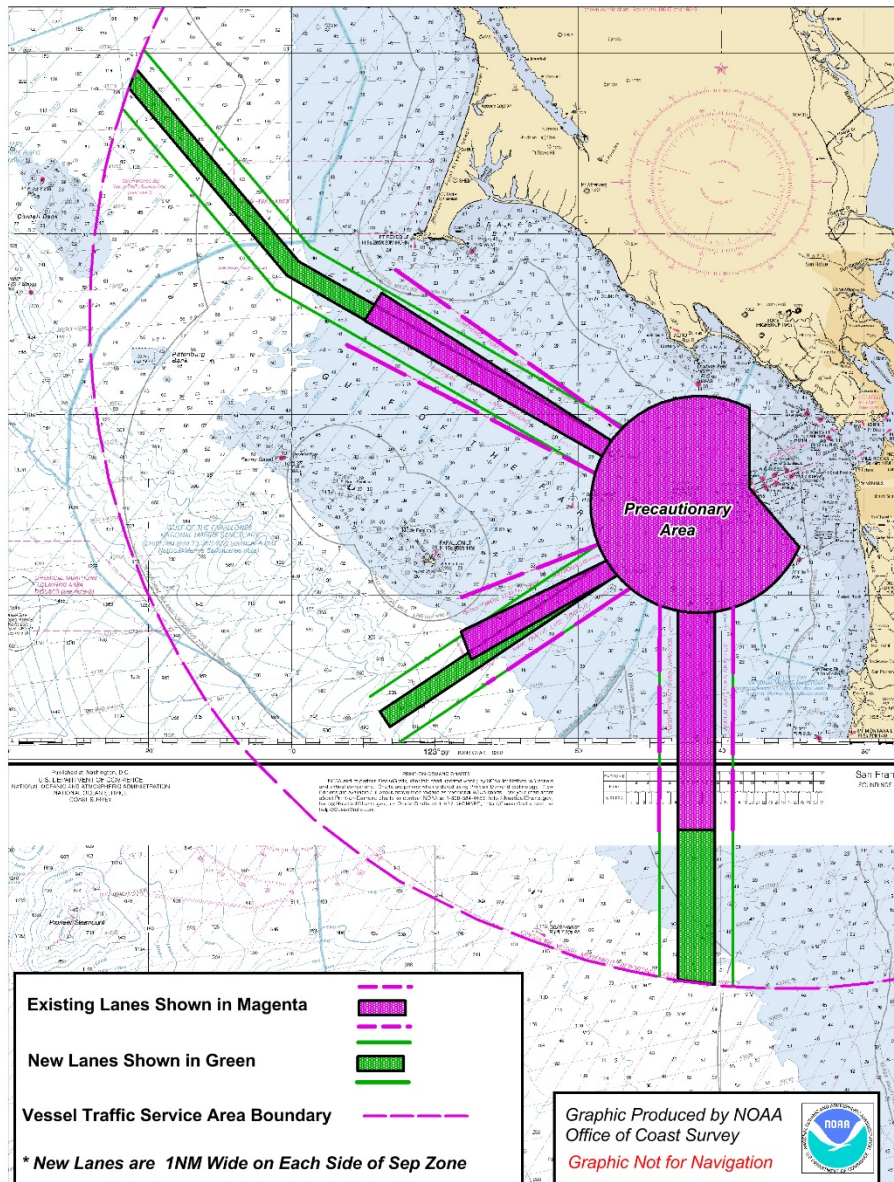


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GG Biosphere ~ Goals 2016-2026



- Embrace working lands and waters as essential components of our Biosphere Reserve, and share our successes and lessons learned broadly.

Golden Gate Biosphere Workplan 2017 and beyond

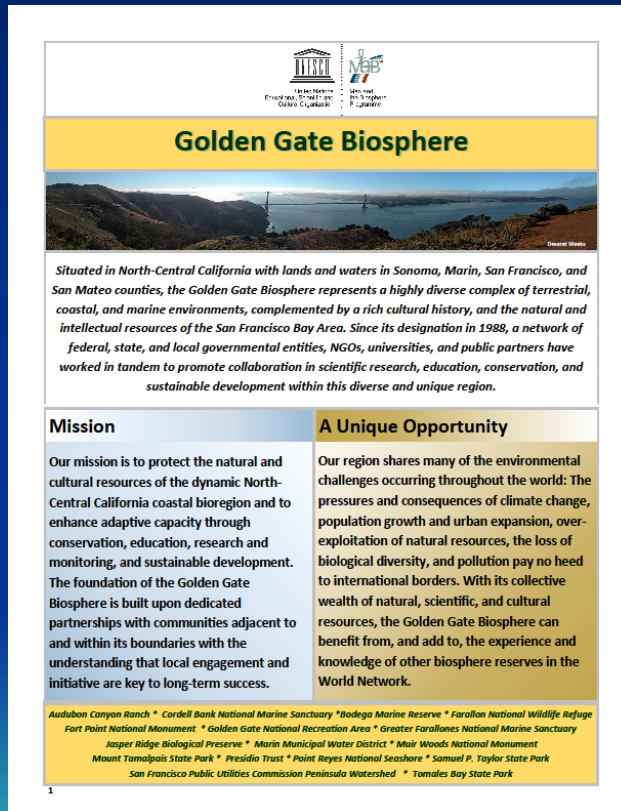
1. Introductions and Expanding Partnerships

Organizations

Stakeholders

The General
Public

Management
Partners



The image shows a brochure for the Golden Gate Biosphere. At the top, it features the logos of UNESCO and MAB. Below the logos is the title "Golden Gate Biosphere" in a yellow banner. Underneath is a photograph of the Golden Gate Bridge and the surrounding landscape. A paragraph of text describes the biosphere's location and its diverse natural and cultural resources. Below this, there are two columns: "Mission" and "A Unique Opportunity". The "Mission" column describes the goal of protecting natural and cultural resources and enhancing adaptive capacity. The "A Unique Opportunity" column highlights the region's environmental challenges and the potential for collaboration. At the bottom, a list of partner organizations is provided.

Golden Gate Biosphere

Situated in North-Central California with lands and waters in Sonoma, Marin, San Francisco, and San Mateo counties, the Golden Gate Biosphere represents a highly diverse complex of terrestrial, coastal, and marine environments, complemented by a rich cultural history, and the natural and intellectual resources of the San Francisco Bay Area. Since its designation in 1988, a network of federal, state, and local governmental entities, NGOs, universities, and public partners have worked in tandem to promote collaboration in scientific research, education, conservation, and sustainable development within this diverse and unique region.

Mission	A Unique Opportunity
Our mission is to protect the natural and cultural resources of the dynamic North-Central California coastal bioregion and to enhance adaptive capacity through conservation, education, research and monitoring, and sustainable development. The foundation of the Golden Gate Biosphere is built upon dedicated partnerships with communities adjacent to and within its boundaries with the understanding that local engagement and initiative are key to long-term success.	Our region shares many of the environmental challenges occurring throughout the world: The pressures and consequences of climate change, population growth and urban expansion, over-exploitation of natural resources, the loss of biological diversity, and pollution pay no heed to international borders. With its collective wealth of natural, scientific, and cultural resources, the Golden Gate Biosphere can benefit from, and add to, the experience and knowledge of other biosphere reserves in the World Network.

Audubon Canyon Ranch * Cordell Bank National Marine Sanctuary * Bodega Marine Reserve * Farallon National Wildlife Refuge
Fort Point National Monument * Golden Gate National Recreation Area * Greater Farallones National Marine Sanctuary
Jasper Ridge Biological Preserve * Marin Municipal Water District * Muir Woods National Monument
Mount Tamalpais State Park * Presidio Trust * Point Reyes National Seashore * Samuel P. Taylor State Park
San Francisco Public Utilities Commission Peninsula Watershed * Tomales Bay State Park

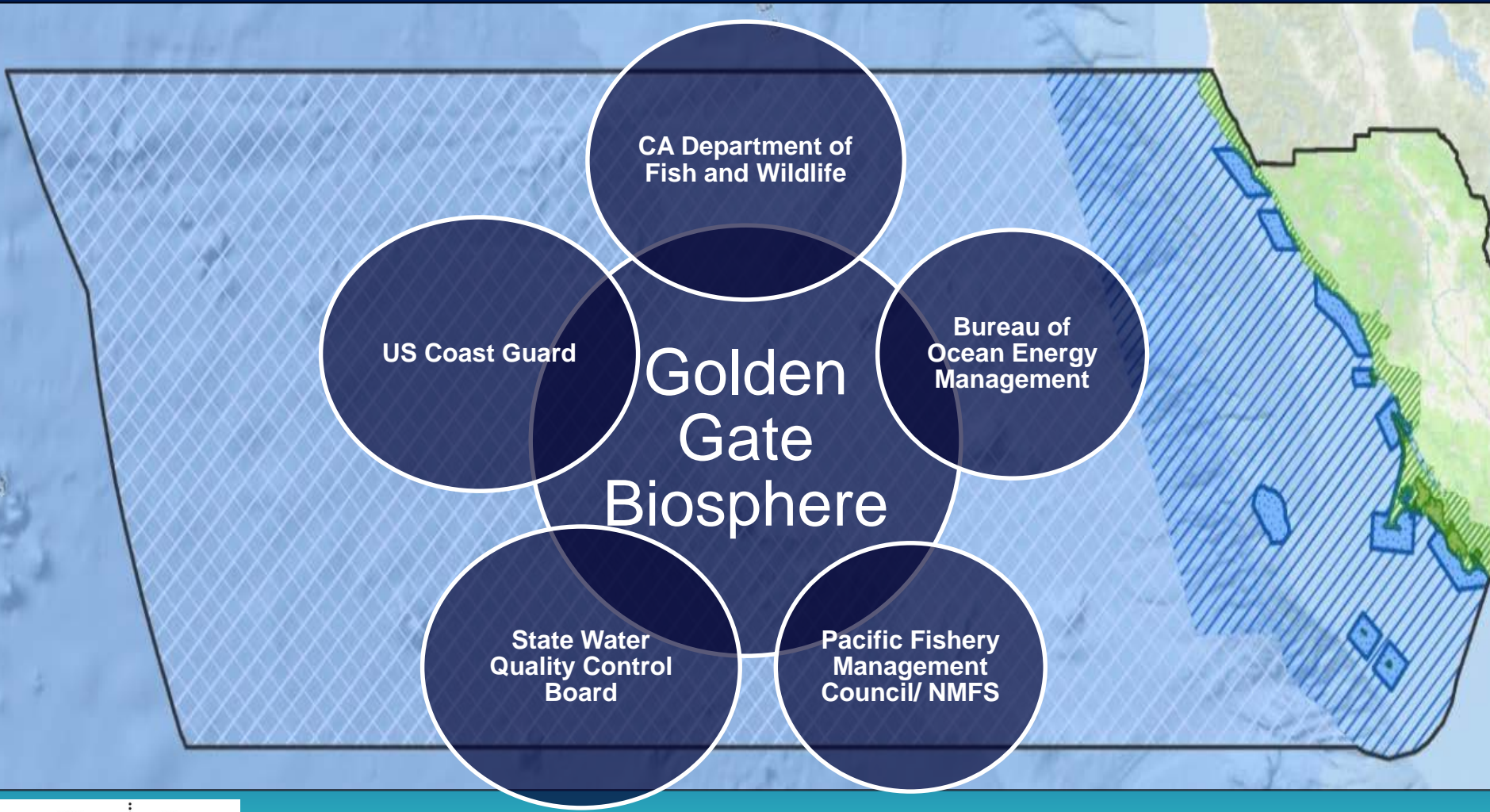


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Reaching out to Other Marine Agencies with Jurisdiction within the Golden Gate Biosphere

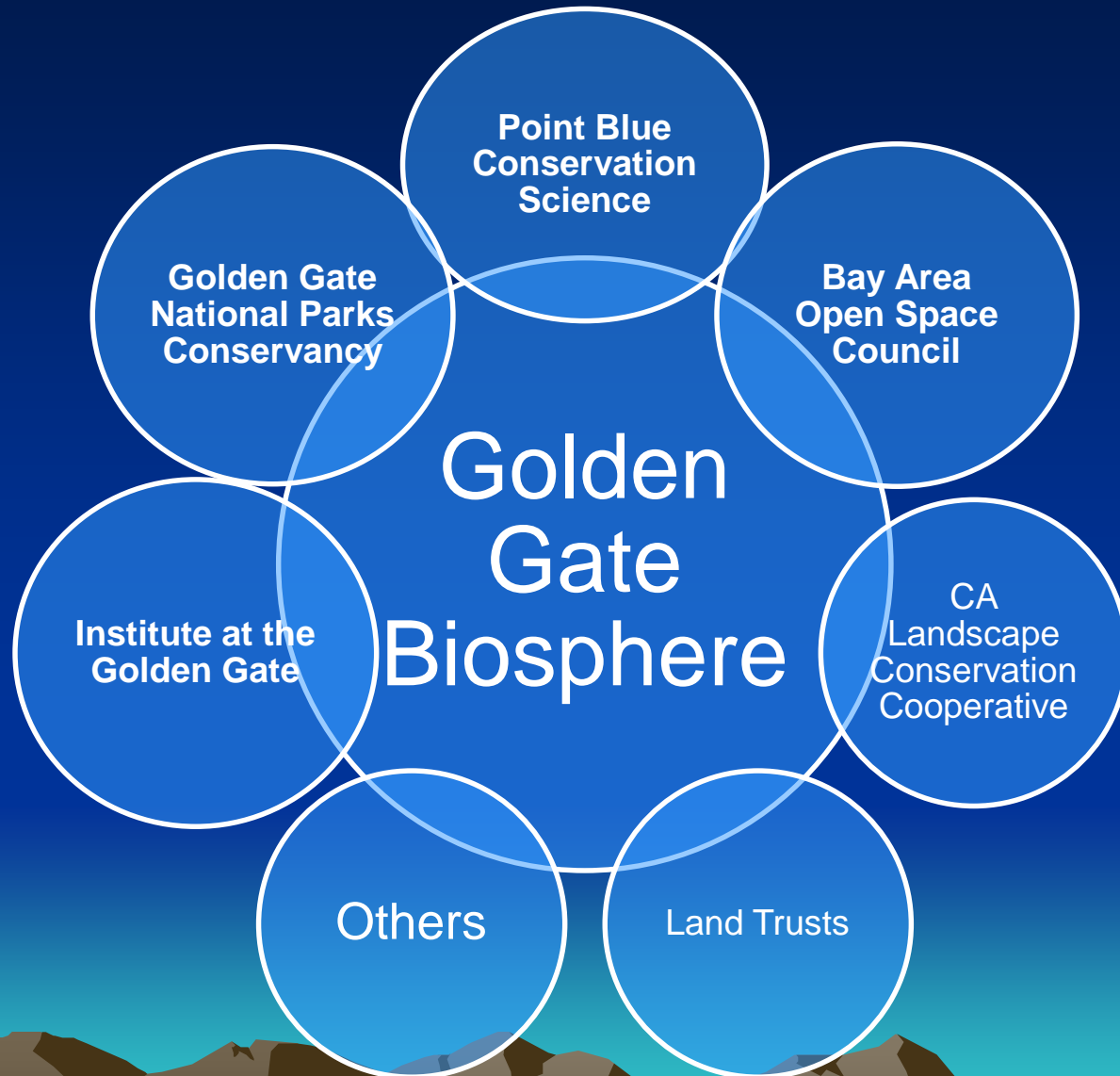


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Stakeholder Engagement



Golden Gate Biosphere Workplan 2017 and beyond

2. Building National and International Partnerships

Golden Gate Biosphere

United States-sharing

Channel Islands
Biosphere

United Kingdom-twinning

Brighton & Lewes
Downs Biosphere



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Brighton & Lewes Downs
UNESCO World Biosphere Region



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WE ARE THE LIVING COAST

The Living Coast is **the** place where people and nature come together in our world-class environment of Downs, Towns and Coast.

We are proud to be a UNESCO World Biosphere Region – our mission is to connect people and nature to inspire a positive future, today.



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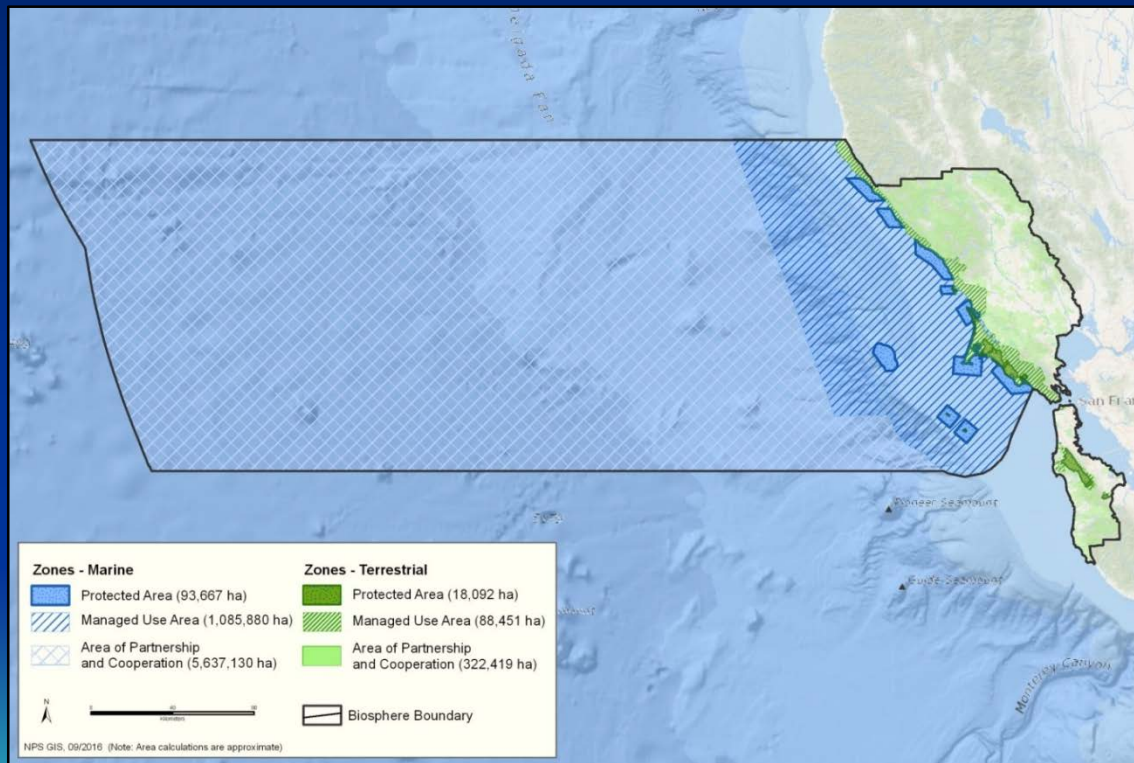
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Golden Gate Biosphere Workplan 2017 and beyond

3. Explore expanding the Managed Use Area to include more adjacent public open space lands or other types of marine managed areas



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