LANDSCAPE ECONOMY

from systems thinking to systems design

Winter School in Antalya, Turkey hosted by Akdeniz University from February 16 - 25, 2024

Case study area: MANAVGAT

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Funded by the European Union



E:NOTRE Institute king landscape education, research and innovative practice





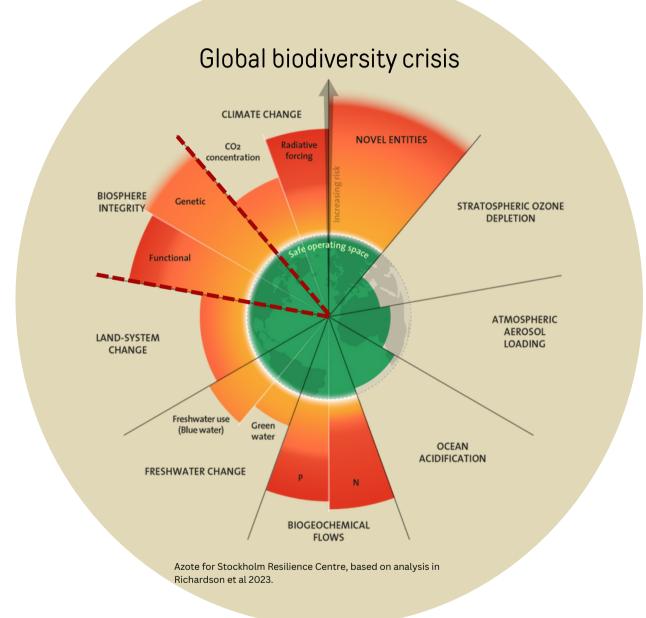




Final Presentation Team Biodiversity

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Manavgat's landscape today and its challenge



Unique mediterranean landscape in small ecosystems

Shrinking and less resilient ecosystems

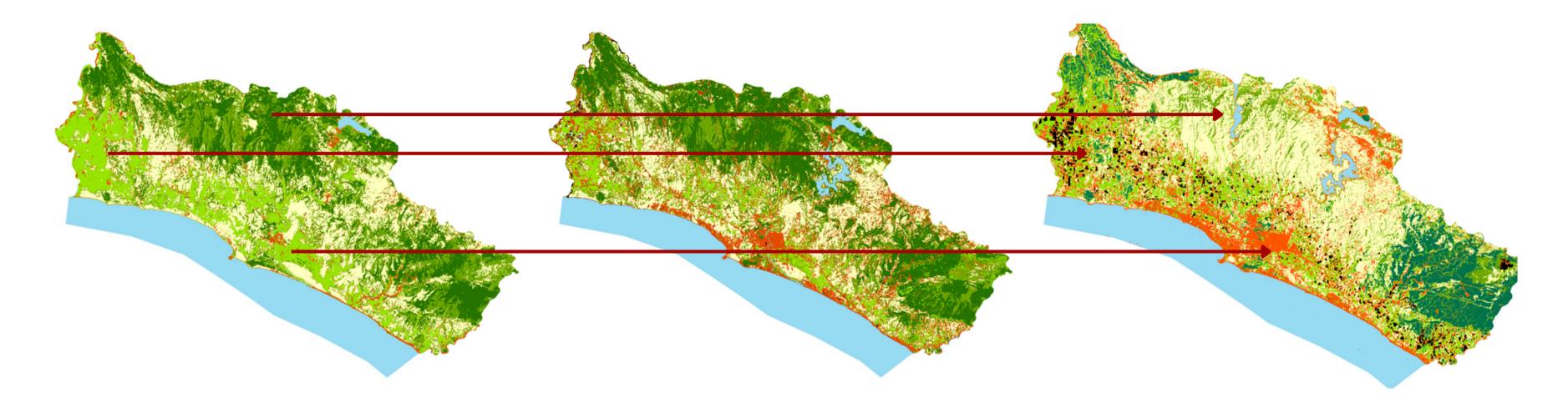
> Overuse of agricultural soil, little control over pesticide and fertilizer use

Economic growth in two sectors that consume a lot of resources

Tourist landscapes with high emissions, pollution and preassure on habitats

Sesonal work with unstable income, degradation of cultural heritage

Manavgat's landscape today and its challenge



Landuse map - 1985

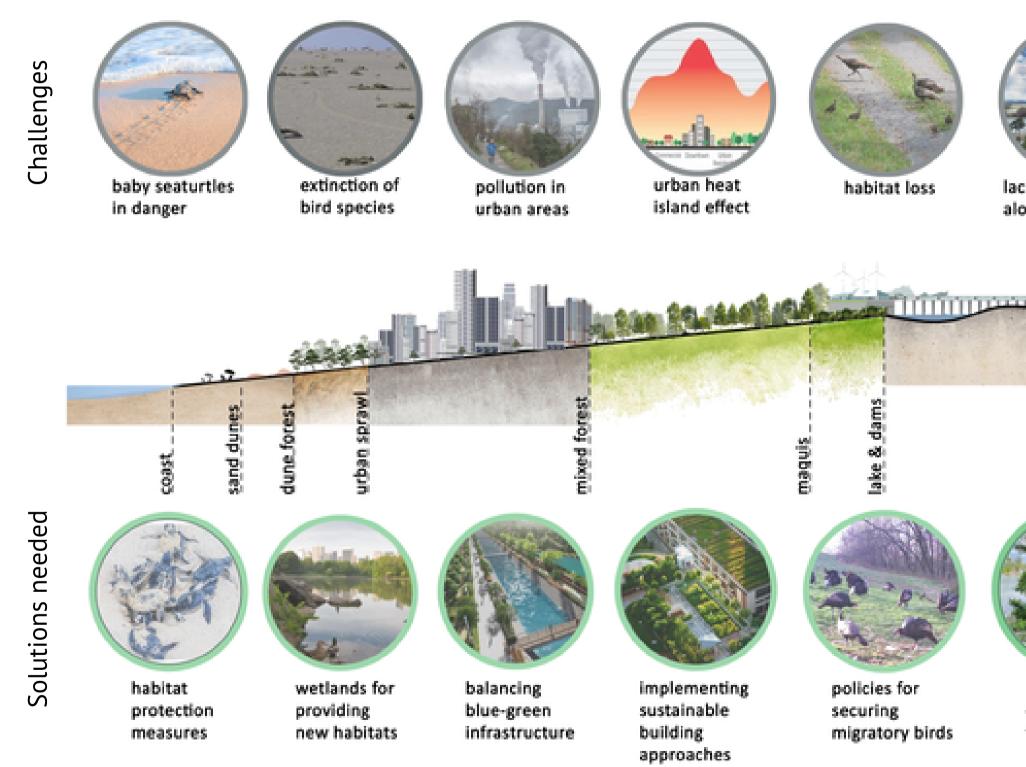
Landuse map - 2005

Landuse map - 2023

Map legend



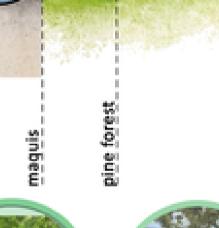
The future landscape system







lack of connectivity along the lake area frequent wildfires





nature trails connecting the city to mountains



grassland

policies for forest protection

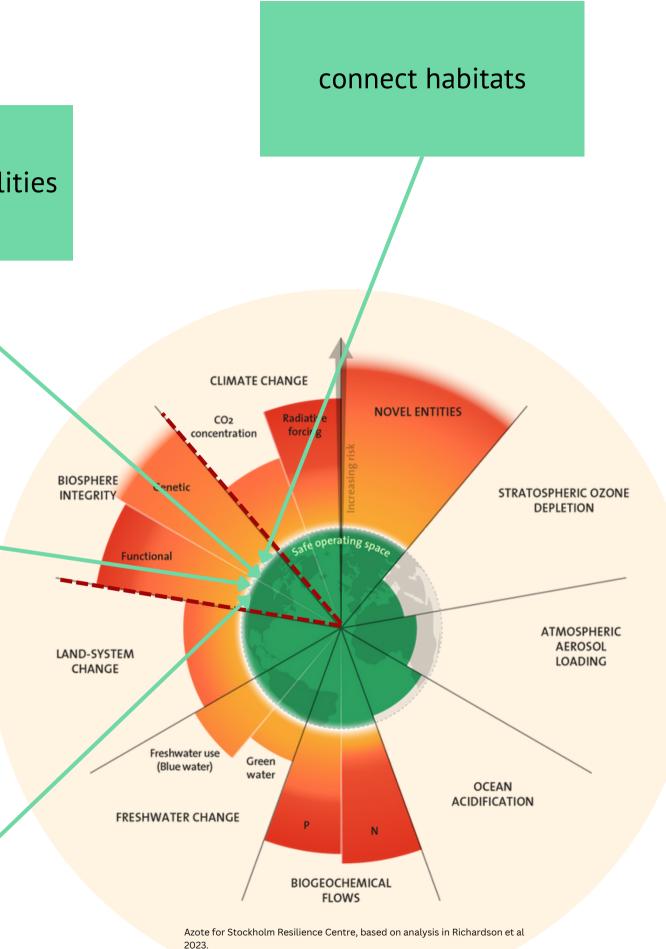
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Our vision

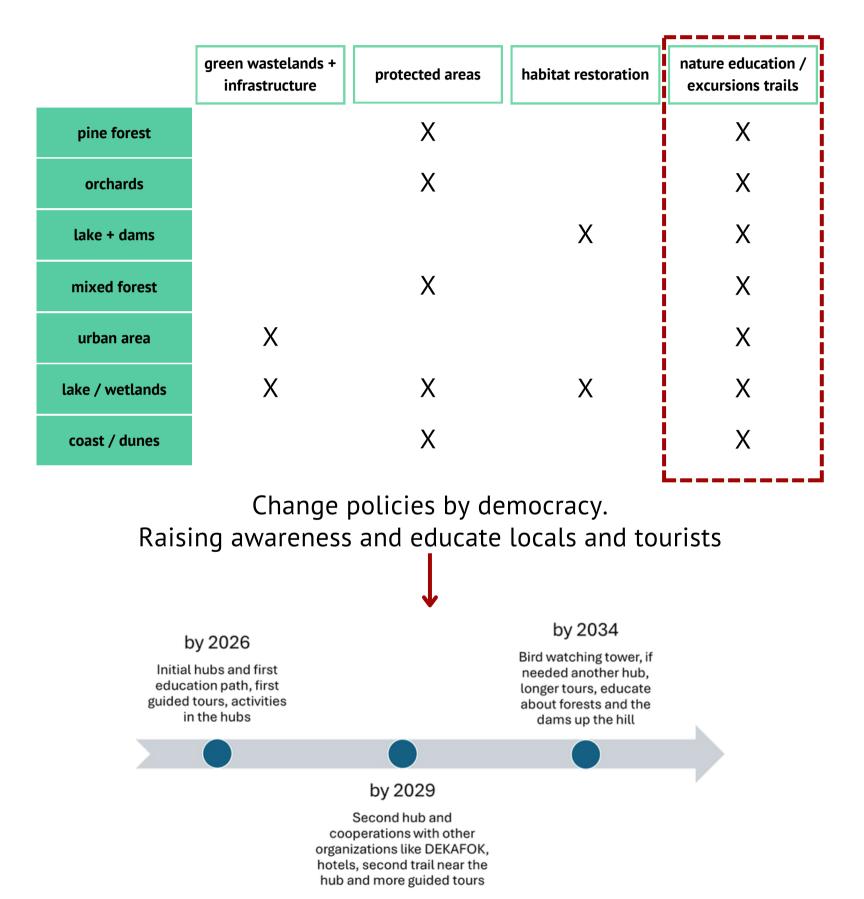
We invision to built a community that is willing to change their personal lifestyle and professional decisions. A community that values nature and identifies with the local habitat types. A community that is willing to volunteer and protect nature.

increase habitat qualities

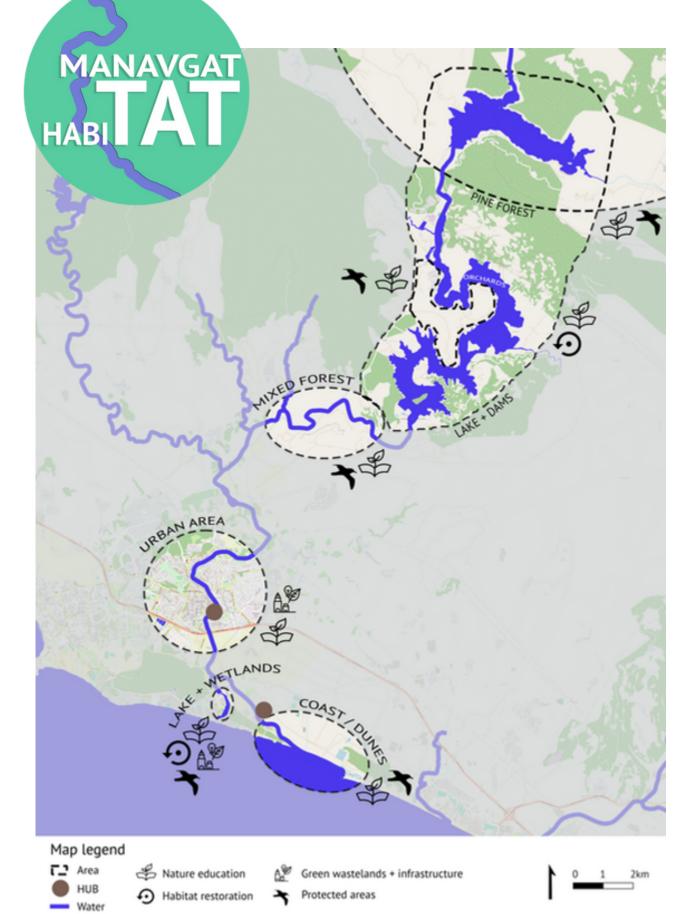
awareness rising	nature education in hubs	
collaborating with tourist organizations	establishing nature education paths	restore habitats
collaborations with social organizations	guided nature tours	
collaborations with nature organizations	restoration projects	increase habitat sizes



Our idea



forest Mixed area Urban dunes Coast /



OSM Standard

Mission Statement

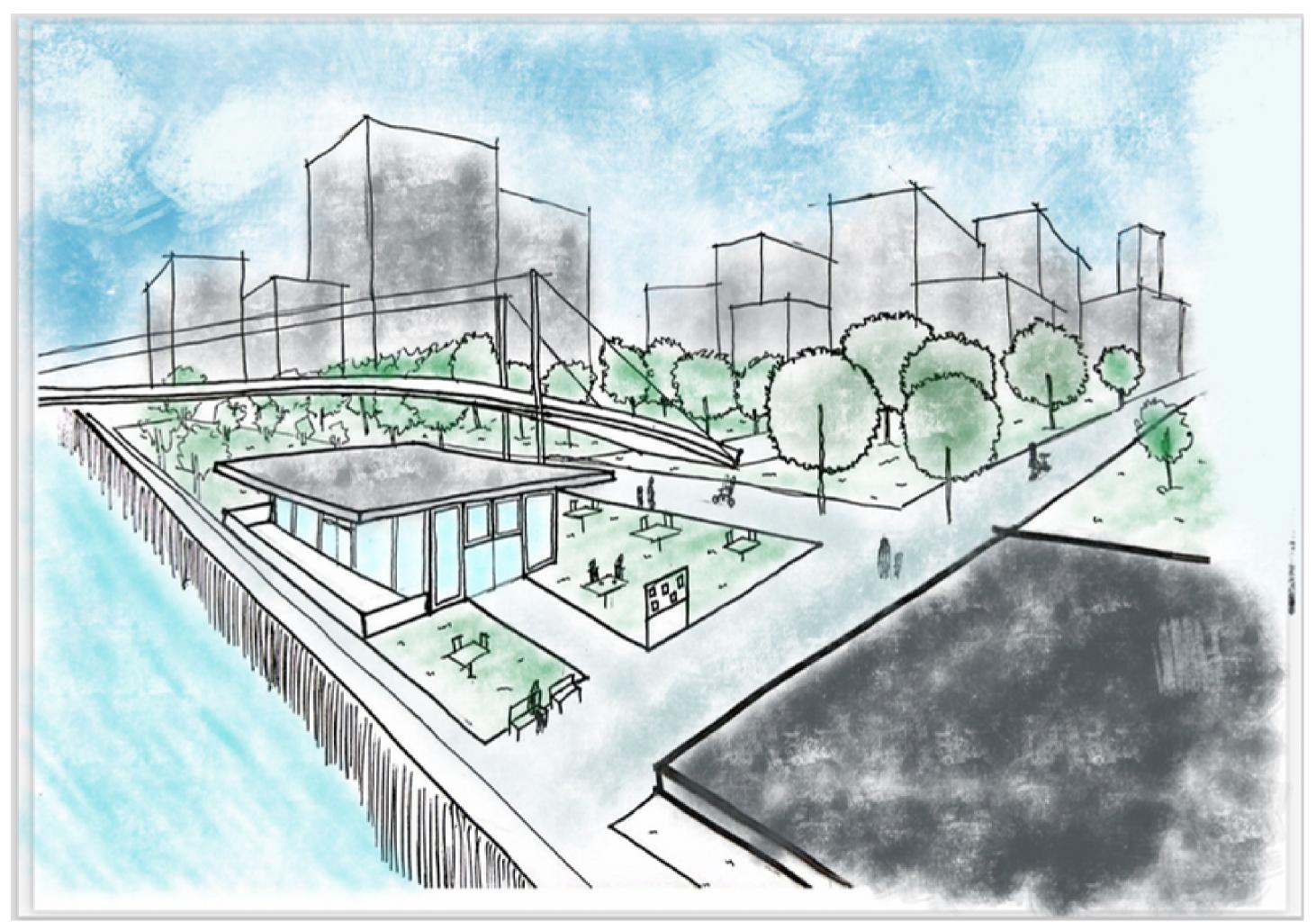
To increase the quality of ecosystems for flora, fauna and strenghtening the ecosystem service for human benefit through awareness rising and education, to explore urban area and coastal zone through the habiTAT hubs, trails and guided tours by educated locals.

Key-Partners	Key Processes	Value Prop	osition	Key-Products &	Customers
 -) DEKAFOK and other NGOs -) Local authorities -) Local professionals -) Universities -) Tour agencies -) Tourist's informations -) Manavgat city museum -) Green certified batala 	-) Education of the local guides -) Networking -) Planning -) Building -) Funding from EU or locals	Customers We offer habitat's hubs, local people, tourists, st institutions. When peop ecosystems services the they enhance awareness sustainability and know	udents and le experience ough activities, s about	-Services -) Trails -) Guided tours -) Conferences -) Courses -) Meet up spaces (with coffee, tea) -) Workshops	-) Local population -) Tourists -) Students -) Youth
-) Green certified hotels -) Schools	Key Resources	among communities.			Beneficiaries
-) Local businesses	 -) Biodiversity experts -) Landscape architects -) DEKAFOK -) River and it's habitats -) Fundings -) Sponsors -) Partners -) Scientists data, land use and development maps 	Beneficiaries Locals community and n improve their economica receiving tourists. DEKA new visitors and volunte museums. Guides can fir is used more sustainable	al status by FOK would gain ers, same for nd jobs. Landscape	Channels -) Social media -) Publicity in the city -) Informations points -) Local platforms -) Eco friendly flyers -) Tour agencies -) Tourists offices	 -) Local community -) Municipality -) Institutions -) DEKAFOK -) Manavgat belediyesi kent müzesi
	Cost-Driver Constructions in general, staff, marketing, infrastructures, funding and research team, trainig of guides and maintenance of hub's		ants, shops, events, conferences,		
Customer & Beneficiary Input -) <u>Local</u> : Business- demand supply -) <u>Tourists</u> : agency- what they like -) <u>Authorities</u> : policy implementation a	-) <u>Research organistions</u> : all -) <u>Education</u> : institutions- w collaborations and improve -) <u>Communities</u> : volunteers	ork force, new ideas,	KPI (Key Performa -) Satisfaction -) Amount of tours -) Income	n ce Indicator) -) Quality institutions to co -) Amount of volunteers -) Measurable improvemen	
Social & Environmental Impact / I	al & Environmental Impact / Impact on Beneficiaries				
-) <u>Social</u> : - Community engagement - Awareness/ conciousness -) <u>SDG's</u> : 1; 3; 4; 8; 9; 11; 13; 14; 15; 17	-) <u>Environmental</u> : - Biodiversity protectio enhancement management	good cause	- Satisfaction to conti and opportunities	ribute for a -) <u>Global</u> : - Policy im prototype design	plementation 7

Pilot HabiTAT Hub

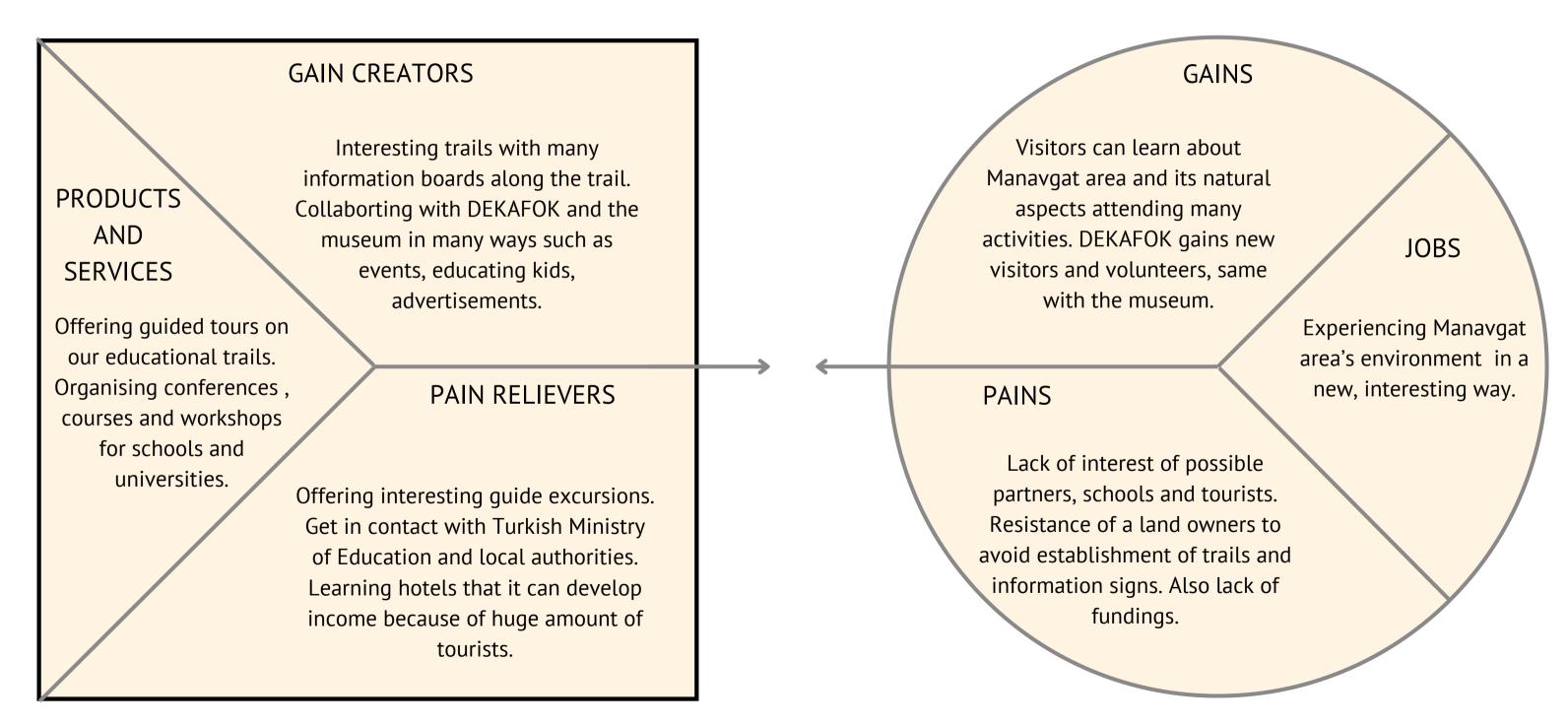
Location:





Value Proposition

created value



customer/beneficiary

Value Proposition

	pains	pain reliviers	gains	gain creator	jobs	products & servicies
			customers			
tourists (also inhabitants)	Lack of interest from tourists	Interesting guide excursions	Active form of spending the time, gaining knowledge	Guidance trips as a source of knowledge. Interesting events	Offering their time. Need of learning new things	Guide trips, trails
students and youth	Lack of activities related to Manavgat's environment in the city	Wide offer activities in hubs	Knowledge, experiences	Organised courses, workshops, conferences	Entertainment	Activities in the hub
	beneficiaries					
local community	Lack of knowledge about their city's biodiversity	Special offers for inhabitants	A new place for meetings / new workplaces	Places to sit and dring cafe and tea, walks along the trail	Working there, vitisting hubs	Vacants, need of volunteers
municipality	Less and less tourists in the city	Attractive eco centers	More income because od the tourists	Tourists while coming to the hubs support local economy (gastronomy, hotels)	Problem with land owners while building a trails	Land owners incentives to support hubs expansion
institutions	No contacts with other entities	Hubs as the way to get in contact with other ones	Wider web of contacts	Collaborations while working with the hub	Investing in hubs and helping to develop	Ability to create something on a bigger scale and make it work
NGOs (such as DEKAFOK)	Small number of volunteers, lack of recognition	Collaboration with hubs	More popularity aiming to doing bigger things for good	The platform thanks to collaboration with hubs	Offering interesting activities with the hubs, offering help	Events, courses
Museum	No activities related to the museum outside the building	Collaboration with hubs	New visitors, high profile in the region	People visiting hubs, signs of the museum	Share knowledge about the region and biodiversity in it	Their knowledge and items

Customers



Local people



Tourists



Students/ Youth



School kids

Beneficiaries



Local communities 1 1 1





Municipality

Institutions

Biodiversity protection organisations





Manavgat belediyesi kent müzesi

Customer persona - Tourist



Information

- Ahmet
- 32 years old
- Designer

Needs

 interested in exploring the local culture, historical sites, and landmarks in addition to enjoying the coastal attractions.

Positive trends

- Cultural Diversity
- Access to Nature
- Local Design Trends

Hopes

- Inspiration and Creativity
- Cultural and Artistic Exploration
- Networking and Collaboration
- Sustainable Design Inspiration

Opportunities

- Cultural Exploration
- Relaxation and Rejuvenation
- Networking

Negative trends

- Rising Sea Levels and Climate Change
- Environmental Degradation
- Lack of Infrastructure

Headaches

- Distractions and Balancing Work and Leisure
- Limited Workspace Availability
- Client Expectations and Communication

Fears

- Health and Well-being
- Cultural and Language Barriers
- Security and Safety Concerns

Beneficiary persona - Municipality officer



Information:

- Ayse
- 35 years old
- Municipality officer

Needs

- Citizen support and trust
- Co-operation during policy implementation
- Harmonious environment

Positive trends

- Sustainable tourism
- Global recognition
- Biodiversity enrichment

Hopes

- Citizen awareness
- Cleaner and safe forests
- Harmony for all living beings

Opportunities

- More jobs for locals
- Happy citizens
- Less unemployment ratio

Negative trends

- Concentrated crowds in specific periods
- Over-exploitation
- Overwhelming for reserved communities

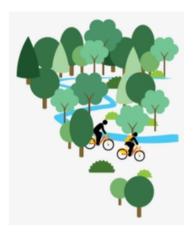
Headaches

- Lot of immigrants
- Creating and following new policies
- Facing criticism from some communities

Fears

- Lack of co-operation from communities
- Natural disaster during execution period

Key-products and -services





Nature education trails with differten topics

Guided tours along the river ecosystems to rise awareness about nature







Conferences according nature topics







Courses for students, scientists and professionals about species identification

Meetup spaces for the customers (with coffee, tea)

Workshops about sustainable living



Publicity in the city





Informations points

Tourist offices









Local platforms

Eco-friendly flyers

Tour agencies

Key Resources

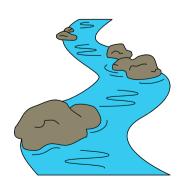






Landscape architects & planners





Biodiversity organisations

River and its habitats









Fundings

Sponsors

Partners

Scientific data, land use & development maps

Key Processes

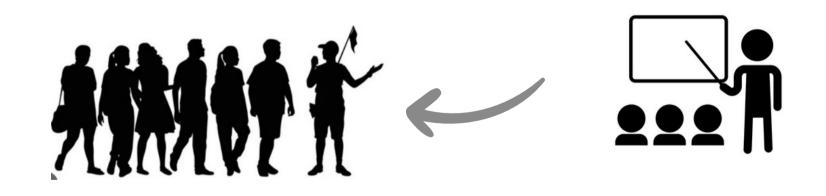








Analysis & Planning Funding from local authorities or EU



Guided tours

Education of guides



Building hubs & trails



Promoting

Key Partners



DEFAKOK and other NGOs



Local authorities



Local universities and students



Local professionals



Tourist's informations



Land owners





Hotels

Manavgat City Museum



Tour agencies

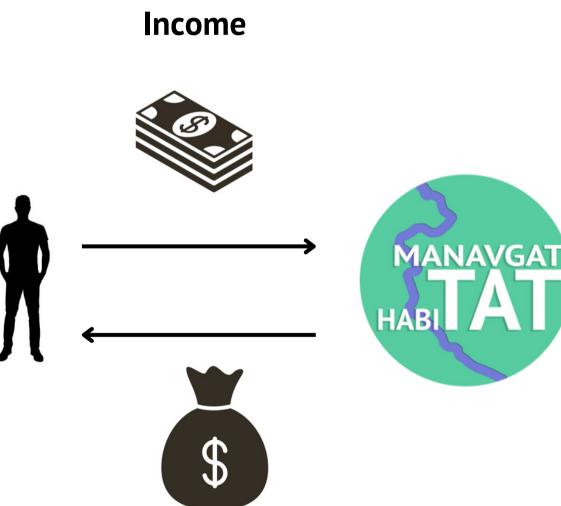


Local businesses

KPI: Key Performance Indicators

Satisfaction





Visitors can rate the project whether or not they are satisfied with the experience

If the investors can get back their money that they put in the project, with benefits



We can see if the project works, if the amount of guided tours demands increase

Social and Environmental Impact

	SOCIAL	ENVIRONMENTAL	BENEFICIARIES	GLOBAL
LONG TERM IMPACTS	Community engagement Progressive development	Awareness and conciousness for biodiversity and biotopes	Profit margins for everyone Satisfaction to contribute for a good cause	Policy implementation Prototype design modules Standards for further development
INDICATORS OF SUCCESS	Public response for biodiversity management Collaboration of more NGO bodies	Biodiversity protection policies Co-operation from people	Increased number of tourists Reduced inflation Collaborative business approach	Recognition as sustainable nation Balanced ecosystems
PLAN TO MEASURE AND REPORT	Statistic data of tourists, migrators and community members	Collecting data for scientists Results for SDG's	More networks and opportunities Increased capacity for sustainable tourism	Comparing data throughout the years Frequent analysis of land-use change

Targeting Sustainable Development Goals







First steps



The first step is to share an idea with the organisations and authorities and calculate building costs.



The next one is to **find sponsors and sources of money** to build the hubs.



The third step is to find a staff, build the first education trail and advertise it.



The last is to start building our first hub and advertising it in collaboration with hotels, tourist information, and collaborating organizations.

Annex

- Supporting material: Social Business Model Canvas with explantory notes
- Supporting material: Good practice of completed Social Business Model Canvas
- Materials discussed in class: <u>https://ilias.hfwu.de/goto.php?target=cat_42587&client_id=hfwu</u> <u>https://ilias.hfwu.de/goto.php?target=cat_42611&client_id=hfwu</u>

es L Canvas <u>587&client id=hfwu</u> Thank you! Tesekkürler! Merci beaucoup! Dziękujemy! धन्यवाद! Dankeschön!

