



Balfour Community Forest

*A sustainable development concept with respect to innovative forest management,
appropriate recreational uses and joint awareness of a cultural landscape
by means of public participation for tomorrow!*

Introduction

Community Forests

- Play an important role within the overall **urban green space**
- Represent **nature** close to where people live
- Offer unique **recreational settings**
- Provide special **educational environments**

Professional objective

- To link **recreational use and forest management** by elaborating a sustainable and participatory development concept
- To illustrate how a better understanding of the **interrelations between the local communities and their peri-urban forest** is essential
 - >> for improving **forest management and use**
 - >> for enhancing **local identity**




Background

Community forest projects in Israel

- **Jewish National Fund – Land Development Agency (JNF-KKL):**
responsible public body for managing all forest in Israel
- In 2006: Introduction of **Community Forest program**
 - >> to improve the **conditions of peri-urban forests**
 - >> to meet the *changing demands of society*
- **Balfour Forest:** national pilot project
 - >> **Public participation process** limited to Migdal HaEmek started in 2008, still ongoing...
- To get involved during **a voluntary internship** in the JNF-KKL in 2009
 - >> decision to make the project the **subject of Master thesis**





Landscape analysis:
Peri-urban region + planning area



Migdal HaEmek - Yafia - Ginegar //

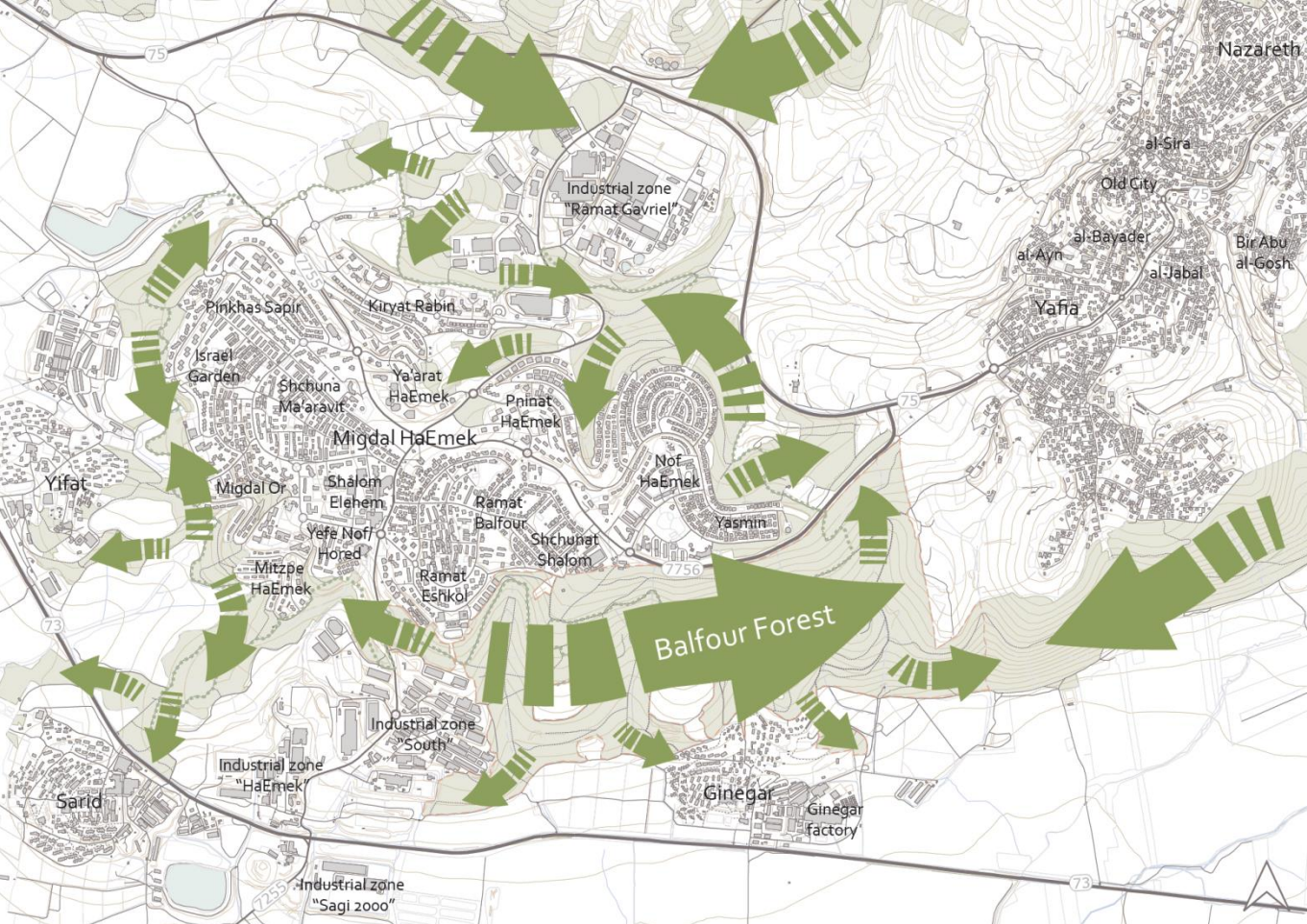
Planning area

- Location: near Nazareth in the Jezreel Valley, Lower Galilee, Israel
- Size: 420 ha

Migdal HaEmek - Yafia - Ginegar //

Community characteristics

- Located between the following communities:
 - >> Migdal HaEmek // **Jewish development town** (1953) // 24,800 inhabitants
 - >> Yafia // **old Arab town** (ca. 1400 BC) // 17,500 inhabitants
 - >> Ginegar // *Jewish kibbutz* (1922) ?? 500 inhabitants
- Situated at a sociogeographic **clashing point** of multicultural societies!
- Differing opinion about Balfour Forest:
 - >> Migdal HaEmek: ***“Neglected backyard of the town”***
garbage, vandalism, insufficient infrastructure
 - >> Yafia: ***“Extended Jewish territory”***
Planted by Jewish pioneers on former Arab agricultural land
 - >> Ginegar: ***“Spiritual landscape”***
deep bonds to the forest since its establishment



Migdal HaEmek - Yafia - Ginegar region Scale: 1:20,000

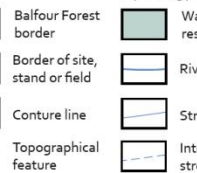
Accessibility / Green belt

Accessibility of the planning area as a part of the green belt around Migdal HaEmek, with connections to the forest network of the Nazareth metropolitan region in the north and east.

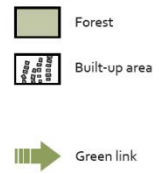
Basics



Hydrology



Land use



Transportation



Routes



Migdal HaEmek - Yafia - Ginegar // Green Belt

- Largest part of a **Green Belt** around Migdal HaEmek on an urban scale
- **Green Links** for flora and fauna towards other habitats
- Part of a **replanted forest network** around Nazareth on a metropolitan scale

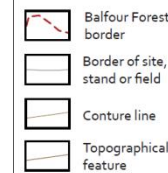


Migdal HaEmek - Yafia - Ginegar region Scale: 1:20,000

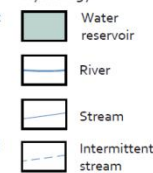
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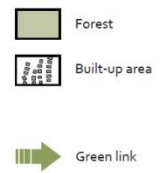
Basics



Hydrology



Land use



Transportation



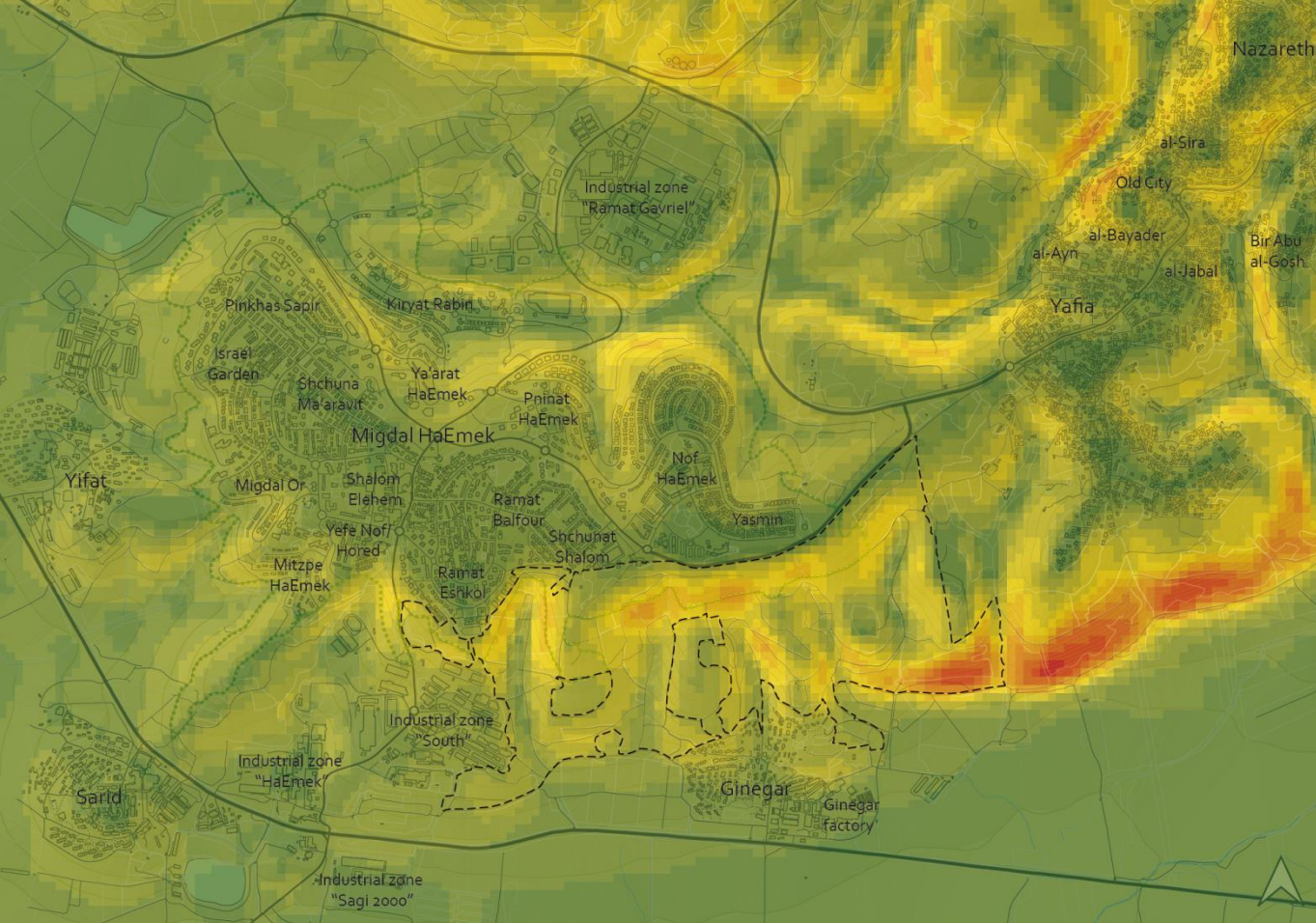
Routes



Migdal HaEmek - Yafia - Ginegar //

Accessibility

- National road No. 75 (Nazareth) in the north
- National road No. 73 (Afula)) in the south
- **Bike trail around Migdal HaEmek** going through the northern part



Migdal HaEmek - Yafia - Ginegar region Scale: 1:20,000

Elevation / Slope gradients

Shaded elevation model of the planning area as a part of the Migdal HaEmek - Kasulot Ridge of the Nazareth Hills including the related slope gradients.

Basics



Balfour Forest border



Border of site, stand or field



Conture line



Topographical feature



Built-up area

Hydrology



Water reservoir



River



Stream



Intermittent stream

Routes



Cycle Route

Elevation (m a. m. s. l.)



400 - 420



380 - 400



360 - 380



340 - 360



320 - 340



300 - 320



280 - 300



260 - 280



240 - 260



220 - 240



200 - 220



180 - 200



160 - 180



140 - 160



120 - 140



100 - 120



80 - 100



60 - 80

Slope gradient (%)



0 - 2,50



2,51 - 5,00



5,01 - 7,50



7,51 - 10,00



10,01 - 12,50



12,51 - 15,00



15,01 - 17,50



17,51 - 20,00



20,01 - 22,50



22,51 - 25,00



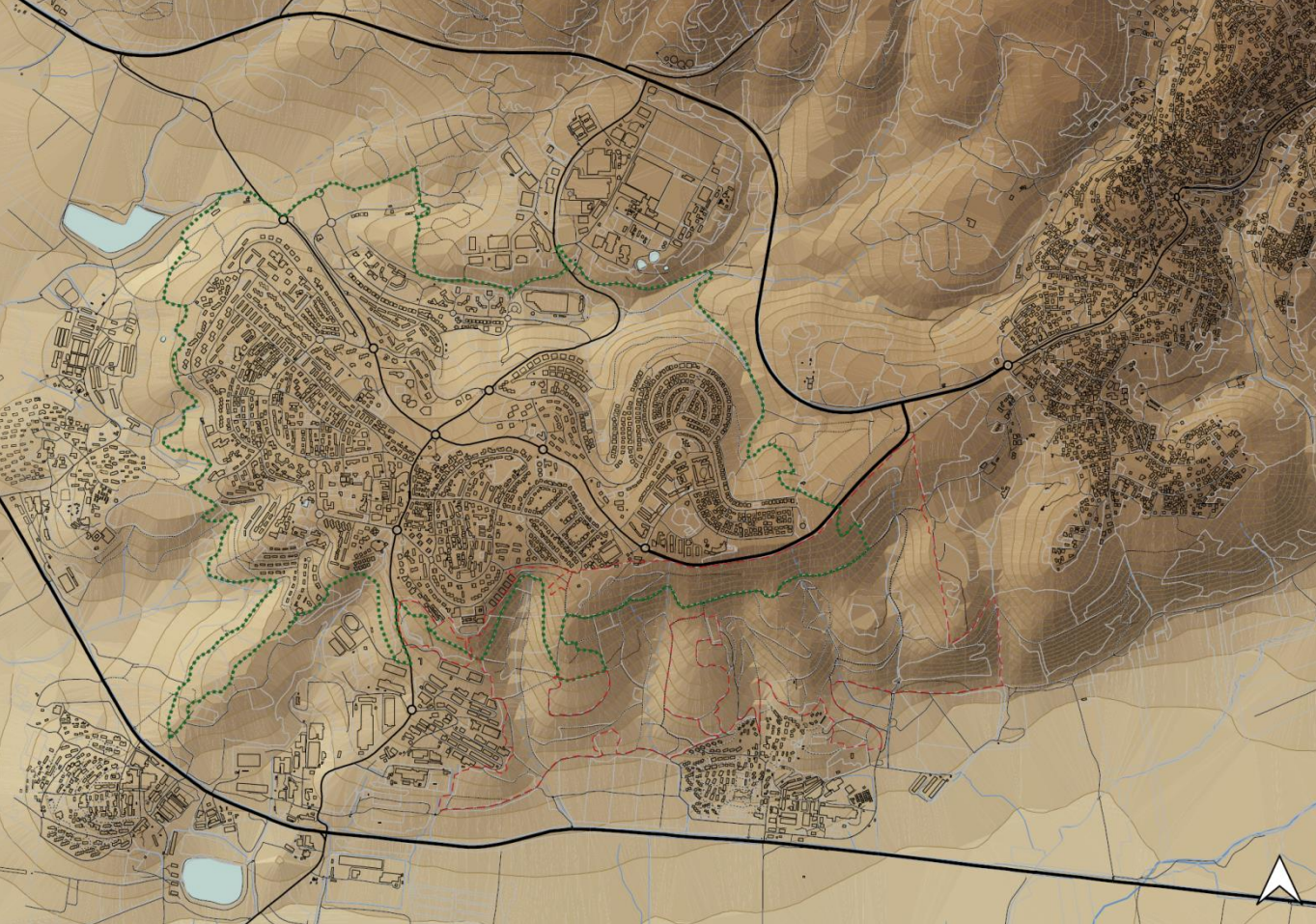
25,01 - 27,50



27,51 - 30,00

Migdal HaEmek - Yafia - Ginegar // Grading scheme

- Part of the **Migdal HaEmek – Kasulot Ridge** of the Nazareth Hills
- Slope gradients **up to 20%** in the northern parts
- Slope gradients **up to 30%** in the south-eastern part



Migdal HaEmek - Yafia - Ginegar region Scale: 1:20,000

Elevation / Slope gradients

Shaded elevation model of the planning area as a part of the Migdal HaEmek - Kasulot Ridge of the Nazareth Hills including the related slope gradients.

Basics

- Balfour Forest border
- Border of site, stand or field
- Contour line
- Topographical feature
- Built-up area

Hydrology

- Water reservoir
- River
- Stream
- Intermittent stream

Routes

- Cycle Route

Elevation (m a. m. s. l.)

	400 - 420		220 - 240
	380 - 400		200 - 220
	360 - 380		180 - 200
	340 - 360		160 - 180
	320 - 340		140 - 160
	300 - 320		120 - 140
	280 - 300		100 - 120
	260 - 280		80 - 100
	240 - 260		60 - 80

Slope gradient (%)

	0 - 2,50
	2,51 - 5,00
	5,01 - 7,50
	7,51 - 10,00
	10,01 - 12,50
	12,51 - 15,00
	15,01 - 17,50
	17,51 - 20,00
	20,01 - 22,50
	22,51 - 25,00
	25,01 - 27,50
	27,51 - 30,00

Migdal HaEmek - Yafia - Ginegar //

Elevation model

- Elevations between **160 – 360 m above sea level**
- **Five wadis** running in north-south direction through the forest
- **Another wadi** on the eastern edge towards Yafia

Balfour Forest //

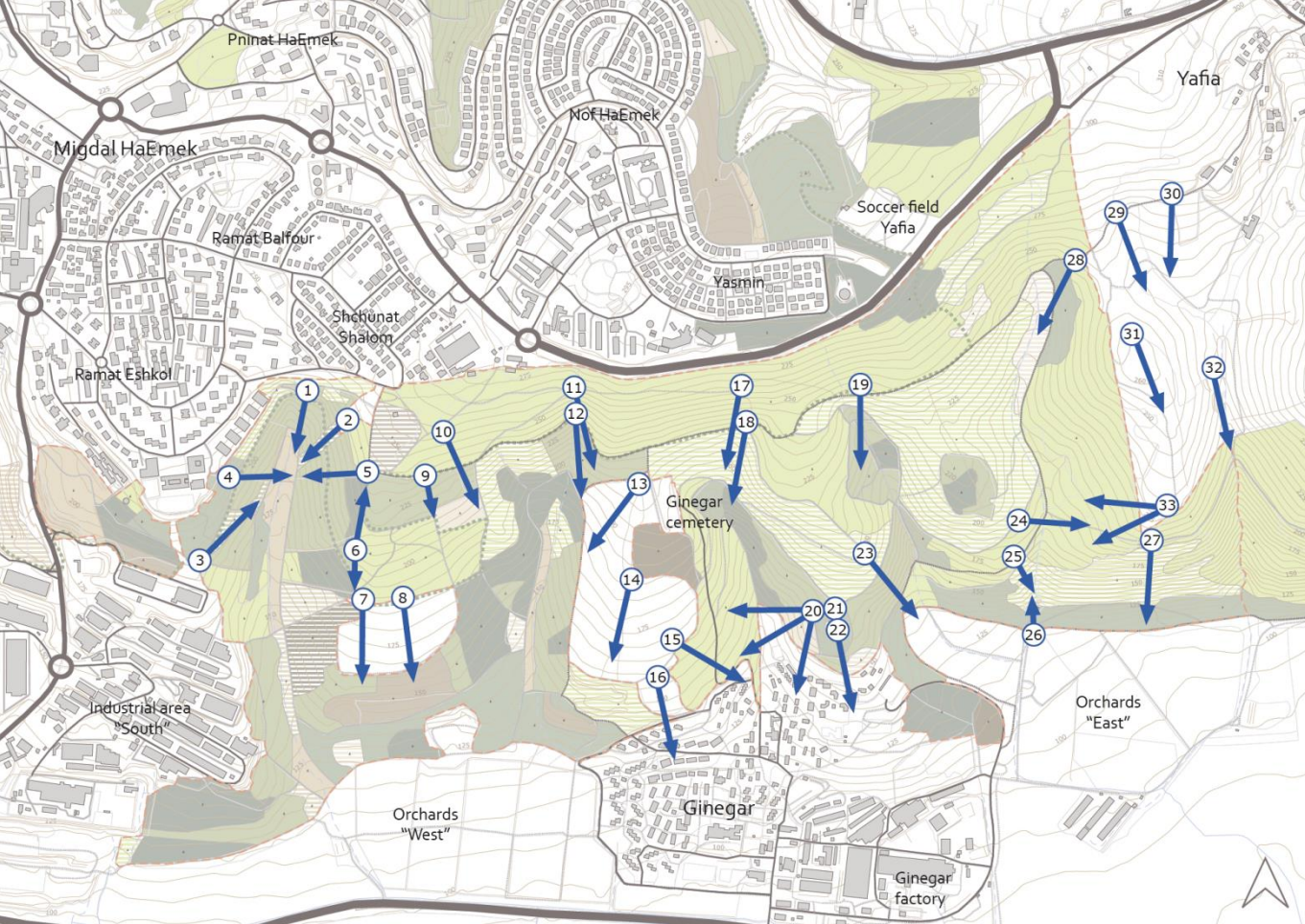
Landscape character

A peri-urban forest with mixed land uses:

- >> **Woodland** mainly planted with coniferous trees:
 - Aleppo pine (*Pinus halepensis*) 32%,
 - Calabrian pine (*Pinus brutia*) 18%,
 - Mediterranean cypress (*Cypressus sempervirens*) 9%
- >> **Wadis** planted with River Red Gum (*Eucalyptus camaldulensis*)
- >> **Small groves** of Olive (*Olea europea*) and Carob (*Ceratonia siliqua*)
- >> **Enclosed grasslands**
- >> **Phrygana** (“*batha*”)

A cultural landscape:

- >> representing the unique legacy of *forestation efforts in Israel during the 20th century*
- >> dating back as far as the **British Mandate Period** (1917-1948)
- >> Bearing traces of ancient settlements from the *Bronze Age* (3300-1200 BC)



Balfour Forest

Scale: 1:10,000

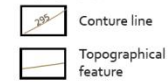
Strengths: Scenic views

The varied forest topography enables beautiful views towards the Jezreel Valley as well as into wadis and onto ridgetops in relation to the experience of the rich diversity of forest stands.

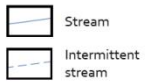
Border line



Topography



Hydrology



Routes



Forest stands (full / medium density)

		Aleppo-Pine (Jerusalem Pine) <i>Pinus halepensis</i>
		Calabrian Pine (Brutian Pine) <i>Pinus brutia</i>
		coniferous woodland var. spec.
		Mediterranean Cypress (Italian Cypress) <i>Cupressus sempervirens</i>
		mixed woodland var. spec.
		deciduous woodland var. spec.
		Red Gum Tree (River Red Gum) <i>Eucalyptus camaldulensis</i>
		Olive Tree or Carob Tree <i>Olea europea</i> or <i>Ceratonia siliqua</i>

Balfour Forest // strengths: *Scenic views*

- into the **Jezreel Valley**
- across the **grasslands** and the **phrygana**
- into the **wadis**



Balfour Forest

Scale: 1:10,000

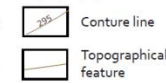
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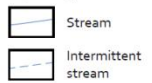
Border line



Topography



Hydrology



Routes



Forest stands (full / medium density)



Balfour Forest // strengths: *Forest stands*

- Rich diversity of forest stands
- Mainly coniferous trees like pines and cypresses
- Also groves of olive and carob, and wadis with eucalyptus



Balfour Forest // Strengths:

View into Jezreel Valley



Balfour Forest // Strengths:

View across the grassland



Balfour Forest // Strengths:

View from the batha area



Balfour Forest // Strenghts:
View from the olive grove



Balfour Forest // Strengths:

View into the eucalyptus wadi



Balfour Forest

Scale: 1:10,000

Strengths / Weaknesses: Landscape features

Conflicts between important vegetation areas, that are worthy of protection referring to their natural and physical values, and human activities in the forest and its adjacent environment.

Border line

- Balfour Forest
- Private plot, stand or field

Topography

- Conture line
- Topographical feature

Hydrology

- Stream
- Intermittent stream

Use conflicts and hazards

- Vandalism
- Over-Grazing
- Flaming
- Common litter
- Hazardous waste
- Untreated sewage

Important vegetation areas

Geophytes

- Persian Cyclamen (1)
Cyclamen persicum
- Sun's-Eye Tulip (2)
Tulipa agenensis
- Crown Anemone (3)
Anemone coronaria
- Nazareth Iris (4)
Iris bismarckiana

Deciduous trees

- Aleppo-Pine (7-8)
Pinus halepensis
- Olive *Olea europaea* /
Carob *Ceratonia siliqua* (9-13)
- Red Gum Tree (14-15)
Eucalyptus camaldulensis
- deciduous woodland (16)
var. spec.

Shrubland

- Batha (5-6)
var. spec.

Coniferous trees

- Mediterranean Cypress (17-18)
Cupressus sempervirens

Balfour Forest // Strengths & Weaknesses: *Landscape features*

- **Important and unique vegetation areas**
- Use conflicts and man-induced hazards: ***Vandalism, overgrazing, flaming***
- Natural hazards: ***Seasonal dryness, pests***



Balfour Forest // Strenghts:
Persian cyclamen



Balfour Forest // Strenghts:
Nazareth iris

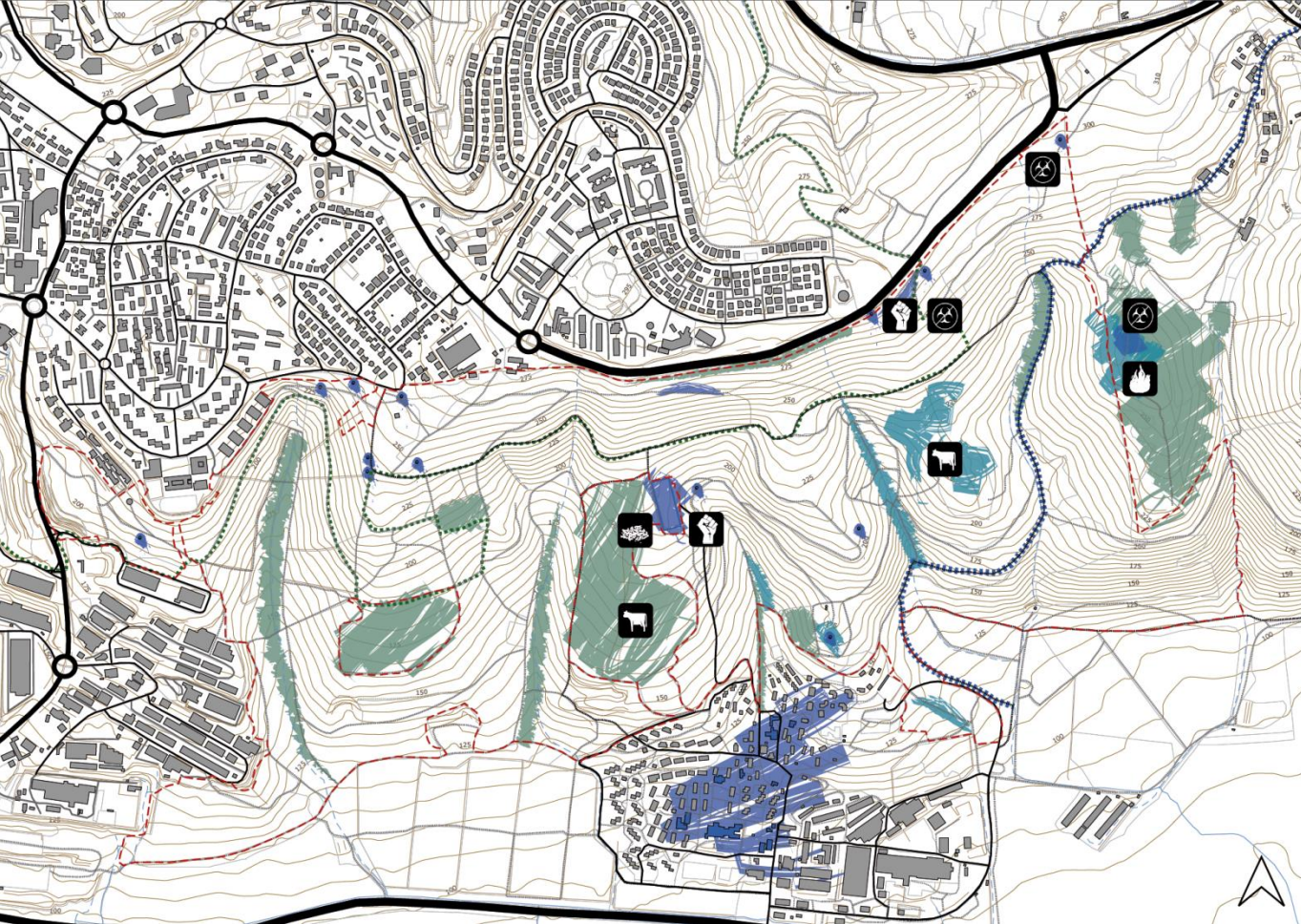


Balfour Forest // Weaknesses:

Semi-pastoral farming / Overgrazing



Balfour Forest // Weaknesses:
Man-induced fires



Balfour Forest

Scale: 1:10,000

Strengths / Weaknesses: Cultural heritage

Conflicts between historic sites as well as spiritual landscapes, that represent cultural heritage, and human activities in the forest and its environment.

Border line

- Balfour Forest
- Private plot, stand or field

Topography

- Conture line
- Topographical feature

Hydrology

- Stream
- Intermittent stream

Use conflicts and hazards

- Vandalism
- Over-Grazing
- Flaming
- Common litter
- Hazardous waste

Important cultural heritage elements

- Listed monuments (1-2)
- Jewish cemetery (3)
- Historic posts (8-19)
- Ancient route "Yafia - Jezreel Valley" (28)
- Other historic landscape elements (4-7)
- Spiritual landscape elements (20-27)
- Cultural landscape elements (29-30)

Balfour Forest // Strengths & Weaknesses: Cultural heritage

- **Antiquities** from the Bronze Age
- **Spiritual landscapes** dating back to the establishment of the kibbutz
- Use conflicts and man-induced hazards: **Vandalism, flaming, littering**



Balfour Forest // Strenghts:
Antiquities from the Bronze Age



Balfour Forest // Strenghts:
Cave near the kibbutz

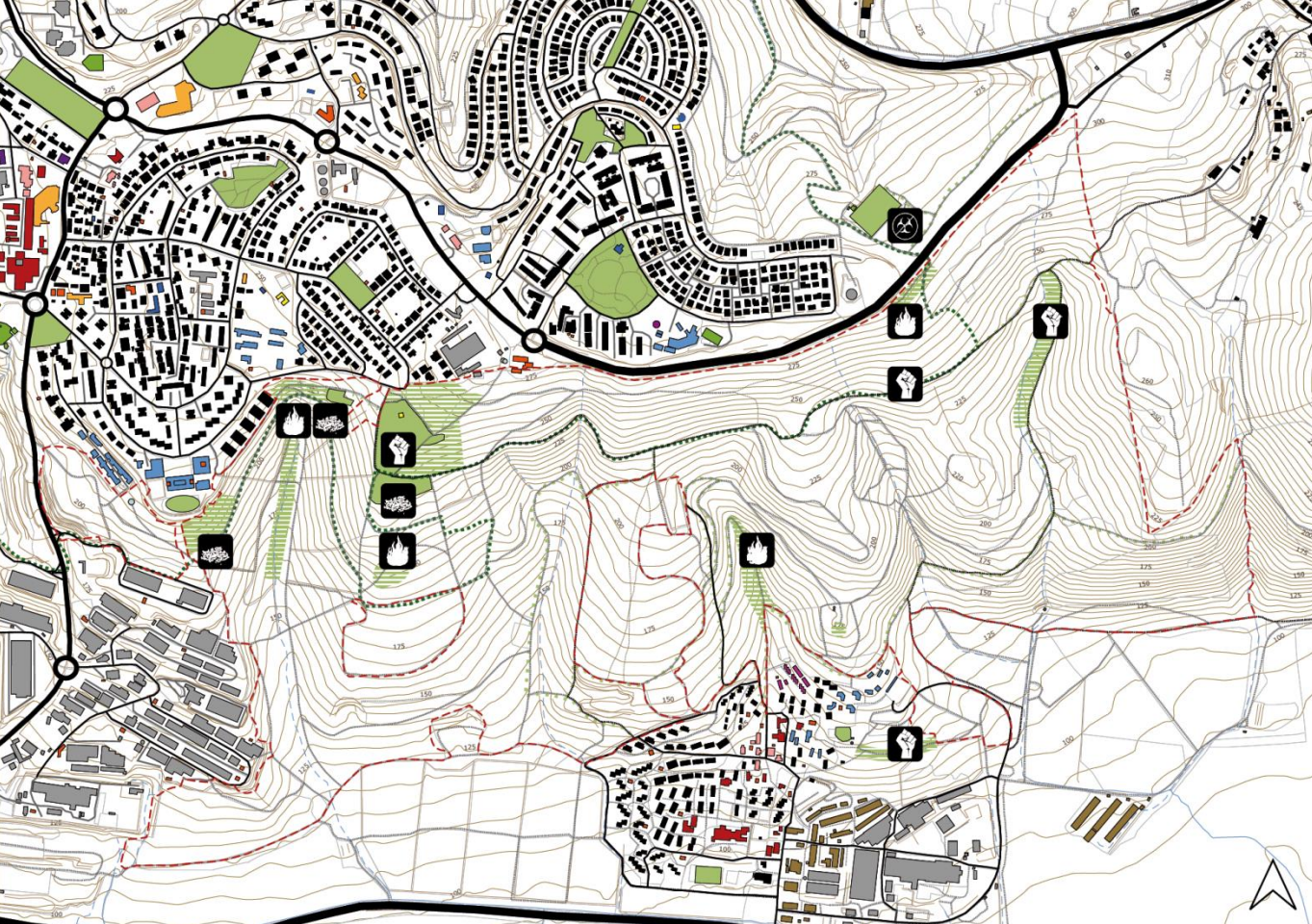


Balfour Forest // Strenghts:
Ginegar Cemetery



Balfour Forest // Weaknesses:

Vandalism of cultural sites



Balfour Forest

Scale: 1:10,000

Strengths / Weaknesses: Recreation areas

Conflicts in implemented open spaces, on routes and in spontaneously acquired forest areas with regard to the walking distances from adjacent educational facilities (10-15 min / 500m).

Border line

- Balfour Forest
- Private plot, stand or field

Topography

- Conture line
- Topographical feature

Hydrology

- Stream
- Intermittent stream

Use conflicts and hazards

- Vandalism
- Flaming
- Common litter
- Hazardous waste

Recreational areas

- urban park / sports field / playground / pool (1-7)
- spontaneously acquired open spaces (8-18)

Routes and trails

- KKL Cycle Route (19)
- walking trails

Buildings

- Municipality
- Emergency
- Health
- Culture
- Sports
- Education
- Religion
- Finance
- Tourism
- Commerce
- Industry
- Agriculture
- Private house
- Water tank
- Watch tower

Balfour Forest // Strengths & Weaknesses: *Recreation areas*

- Existing infrastructure, e.g. **bicycle trail**
- Evidence of **spontaneously acquired spaces**
- Use conflicts and man-induced hazards: **Flaming, vandalism, littering**



Balfour Forest // Strenghts:

Spontaneously acquired places



Balfour Forest // Strenghts:
Meeting places



Balfour Forest // Weaknesses:

Leftovers after the meeting



Balfour Forest // Weaknesses:
Landscape vandalism



Balfour Forest

Scale: 1:10,000

Opportunities: Development zones

Development suggestions regarding various activity zones / sites in and around the forest in cooperation with JNF-KKL as well as potential local stakeholders in Migdal HaEmek, Ginegar and Yafia.

Border line

- Balfour Forest
- Private plot, stand or field

Topography

- Conture line
- Topographical feature

Hydrology

- Stream
- Intermittent stream

Development zones

- Tourism
- Kibbutz extension
- Road dismantling
- Event zone
- Recreation / Play zone
- Ecological awareness
- Research / Preservation of green links
- Lookout
- Cultural heritage
- Cemetery extension
- Agriculture
- Preservation of cultural landscape elements
- Planar zone
- Parking

Potential development sites

- B&B Ginegar
- Fire Brigade Migdal HaEmek
- Stage
- Sport facilities
- Educational facilities
- Listed monuments in Ginegar
- Farmers of Ginegar and Yafia
- Watchtower

Balfour Forest // Opportunities: *Development zones*

- Different **development and activity zones**
- Various activity sites in **cooperation with local / regional partners**
- Strengthening the forest fringe by **buffer zones and Green Links**

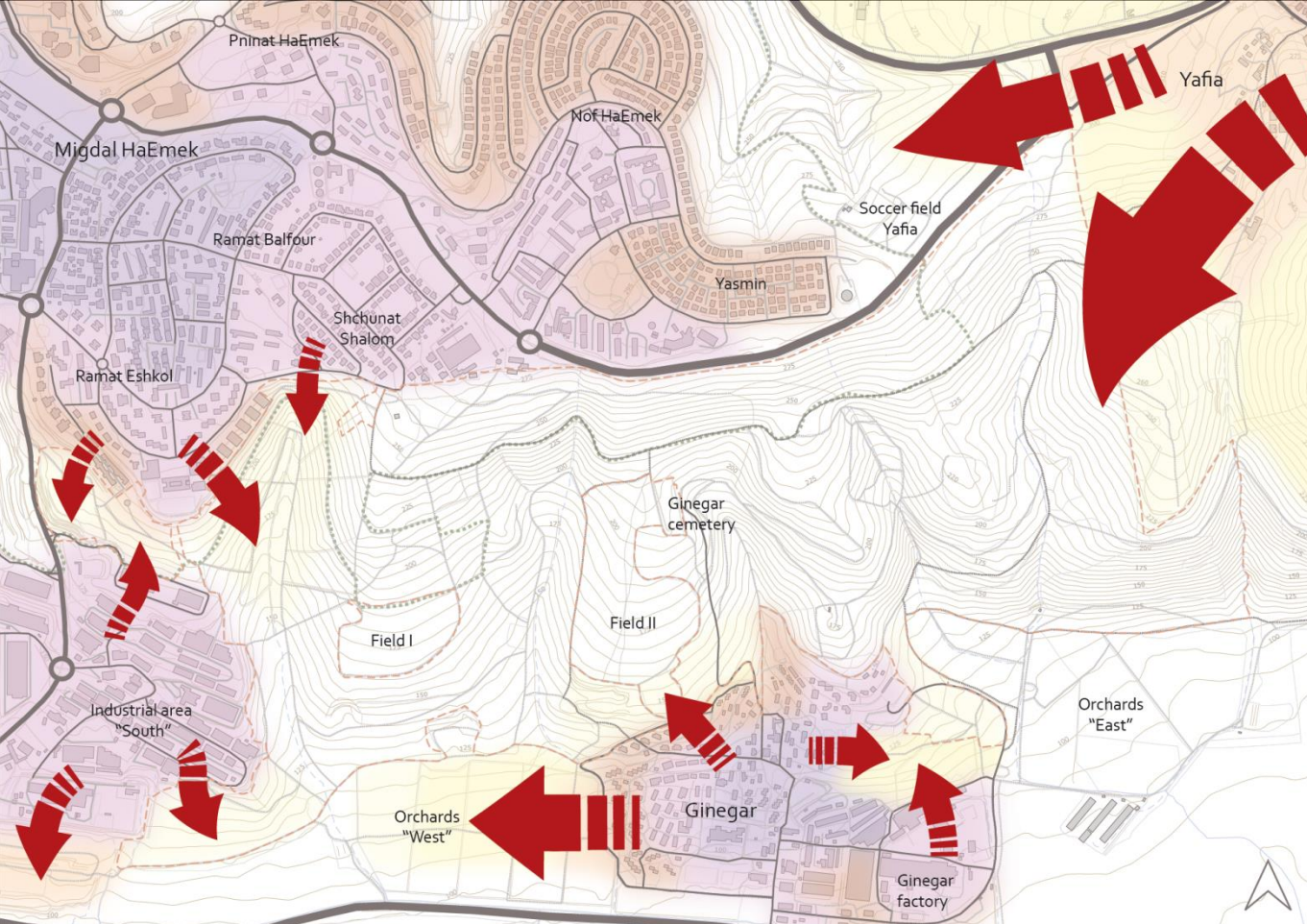


Balfour Forest // Opportunities:

Picnic place at the Carob tree



Balfour Forest // Opportunities:
Forest partnerships



Balfour Forest

Scale: 1:10,000

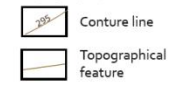
Threats: Urban development

Expected urban development of the adjacent communities Migdal HaEmek (Jewish development town), Ginegar (Jewish kibbutz) and Yafia (Arab town) towards the forest fringe.

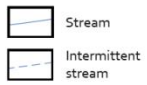
Border line



Topography



Hydrology



Routes



Urban development



Balfour Forest // Threats: *Building development*

- **Expanding residential areas** from all sides
- **Environmental hazards:** man induced forest fires, pollution, soil degradation and bite originating from overgrazing
- **Weak legal policies and insufficient enforcement of nuisances**



Balfour Forest // Threats:

Building at the forest fringe



Balfour Forest // Threats:

Illegal litter dumping site




Conceptual design: Balfour Community Forest

Sustainability

- Common definition:

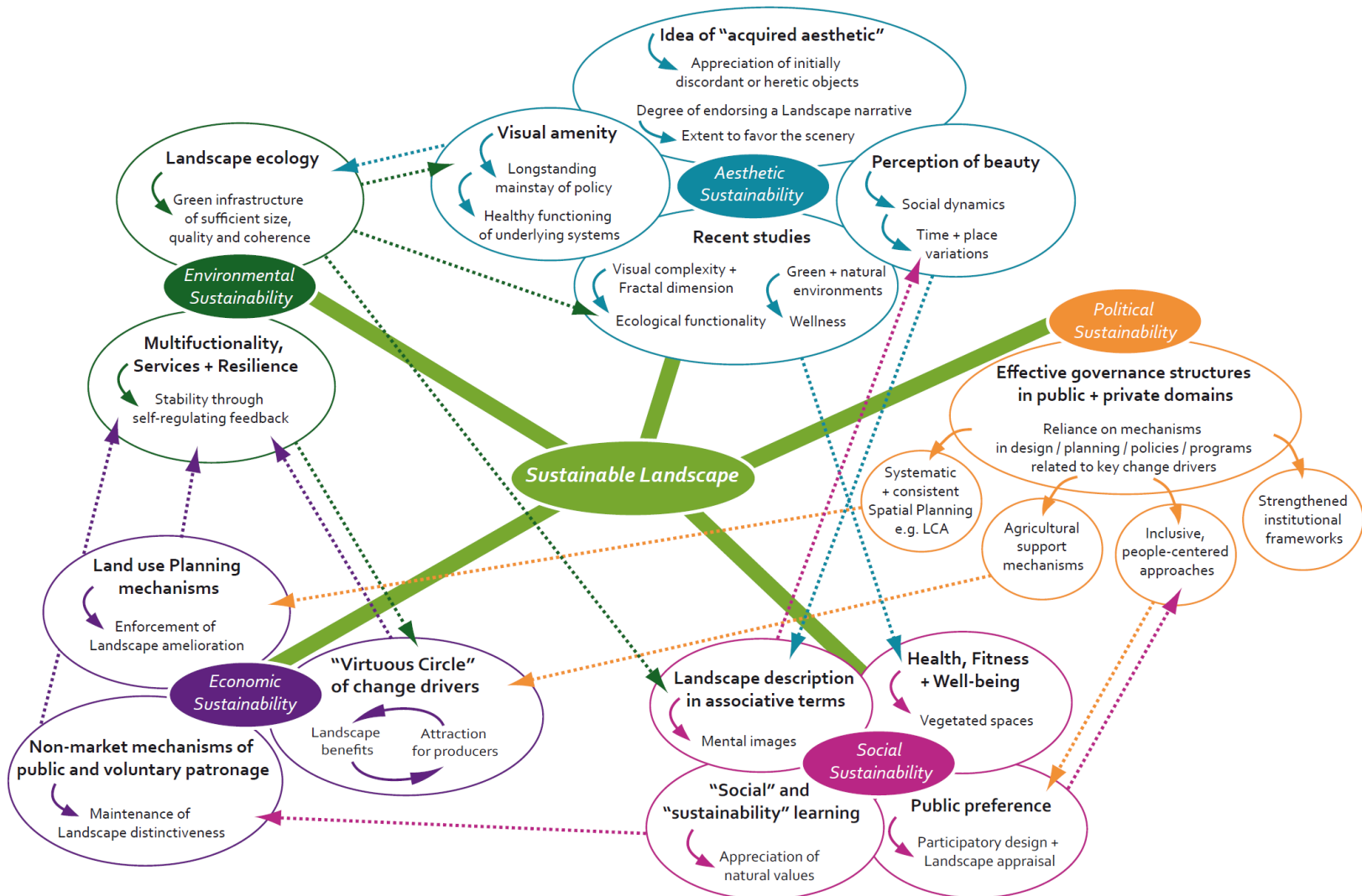
“Meeting the needs of the present without compromising the ability of future generations to meet their own needs” (Brundtland Commission 1987)

- According to Paul Selman’s Essay ***“What do we mean by sustainable landscape?”*** (2008):

>> Environmental		Sustainability	e.g. landscape coherence
>> Economic			e.g. attraction for producers / users / sponsors
>> Social			e.g. appreciation of natural values
>> Political			e.g. people-centered approaches
>> Aesthetic			e.g. visual beauty

- To be achieved by **combining professional JNF-KKL forestry skills with constructive feedback from the adjacent communities**

Sustainable landscape

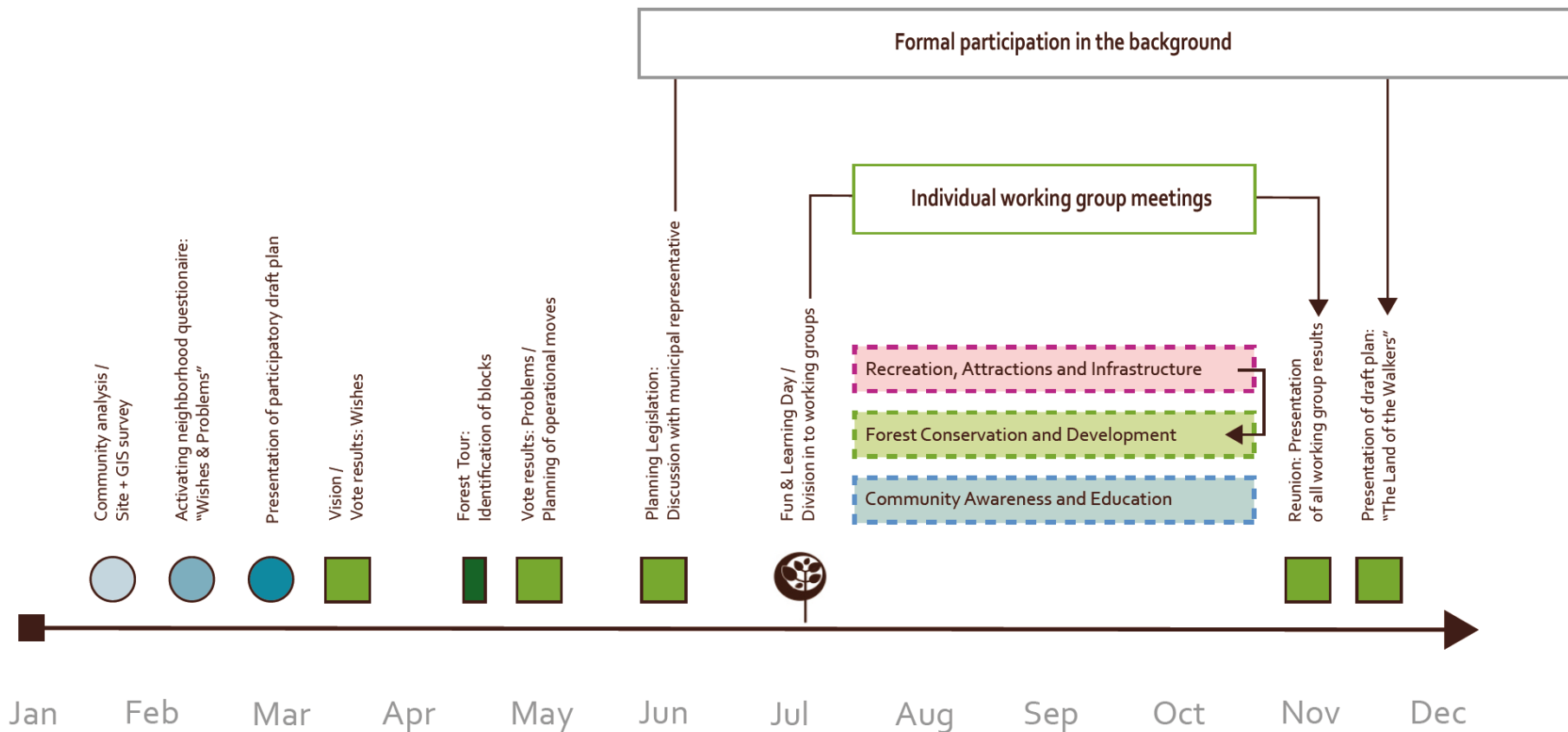


Community-based forest management

2008

Preparation phase

Planning phase

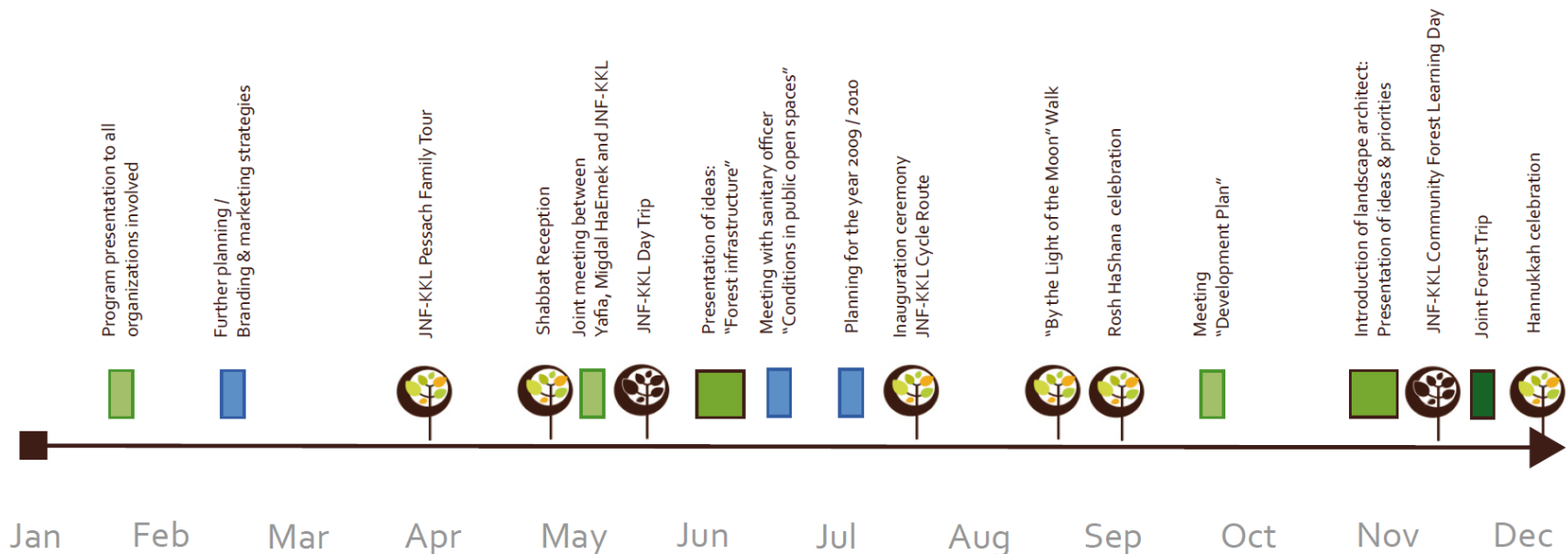


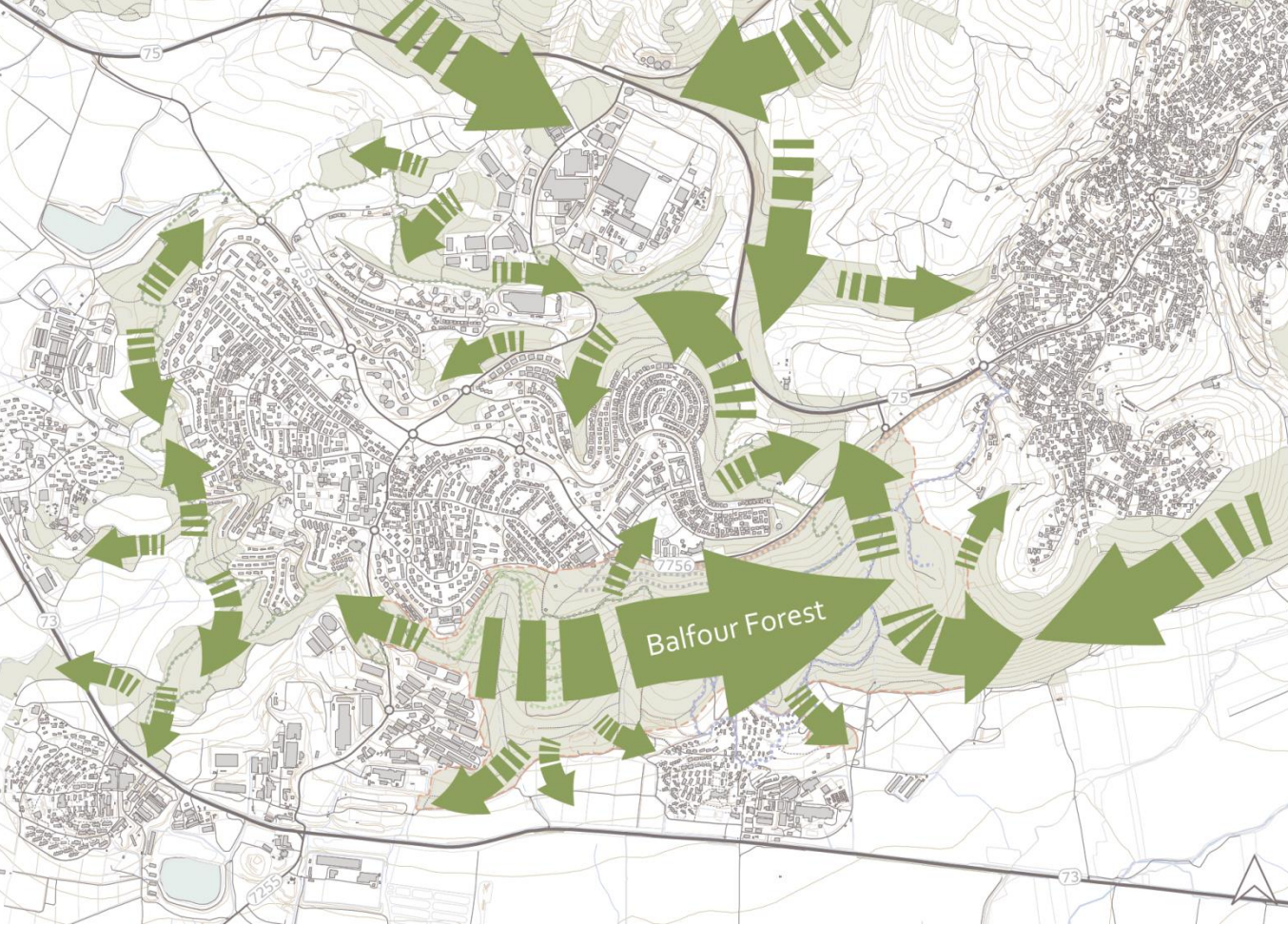
Community-based forest management

2009

Planning phase

Formal participation in the background

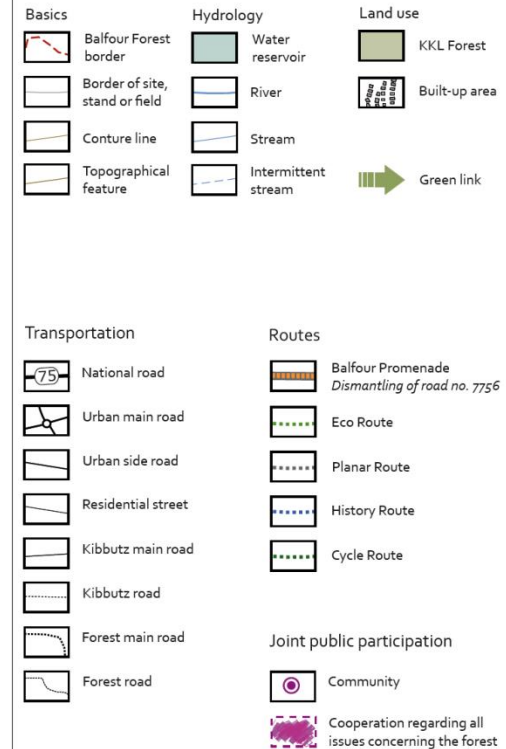




Migdal HaEmek - Yafia - Ginegar region Scale: 1:20,000

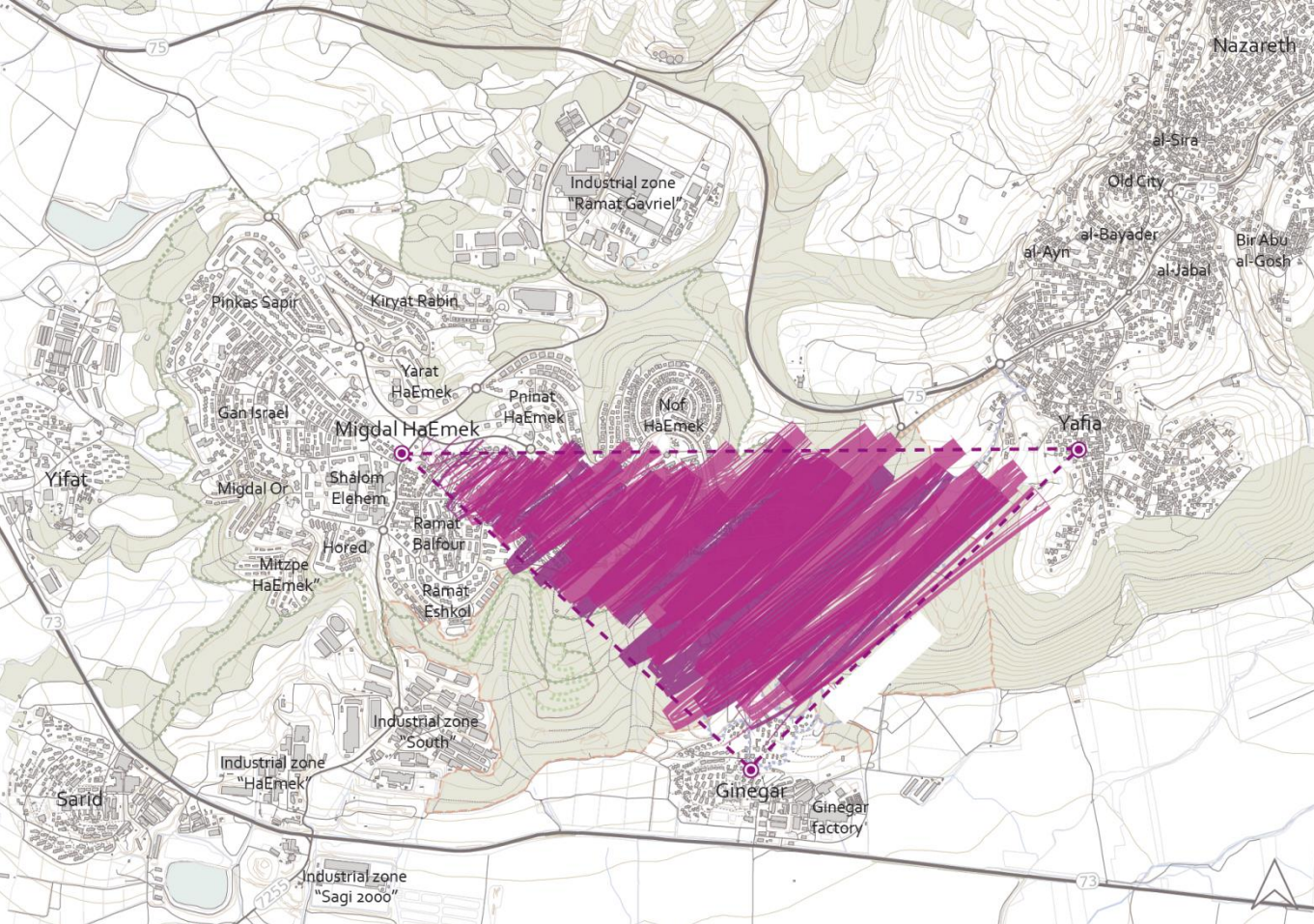
Concept: Preservation and extension of the green belt

A joint participatory process of all communities adjacent to the forest guarantees sustainable development regarding recreation, ecological awareness, cultural heritage and forest management.



Migdal HaEmek - Yafia - Ginegar // Preservation & extension of the Green Belt

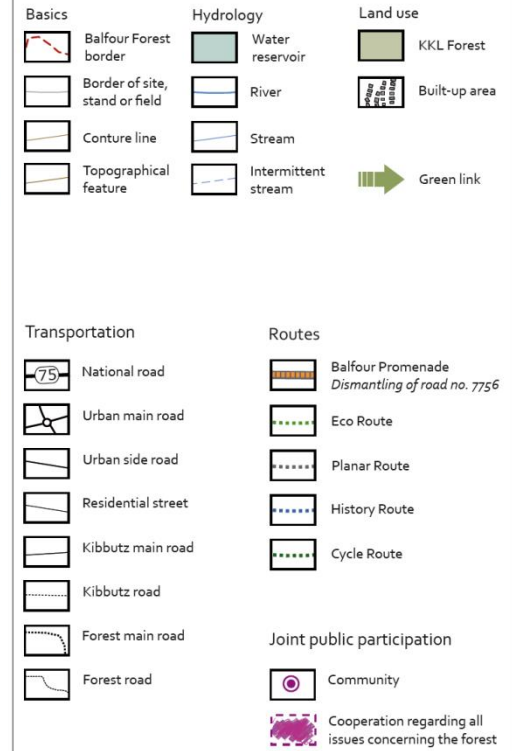
- To establish **Green Links** towards urban green spaces and into neighborhoods
- To conduct **land changes** regarding landscape coherence on local level
- To strengthen the **landscape coherence** on metropolitan level



Migdal HaEmek - Yafia - Ginegar region Scale: 1:20,000

Concept: Preservation and extension of the green belt

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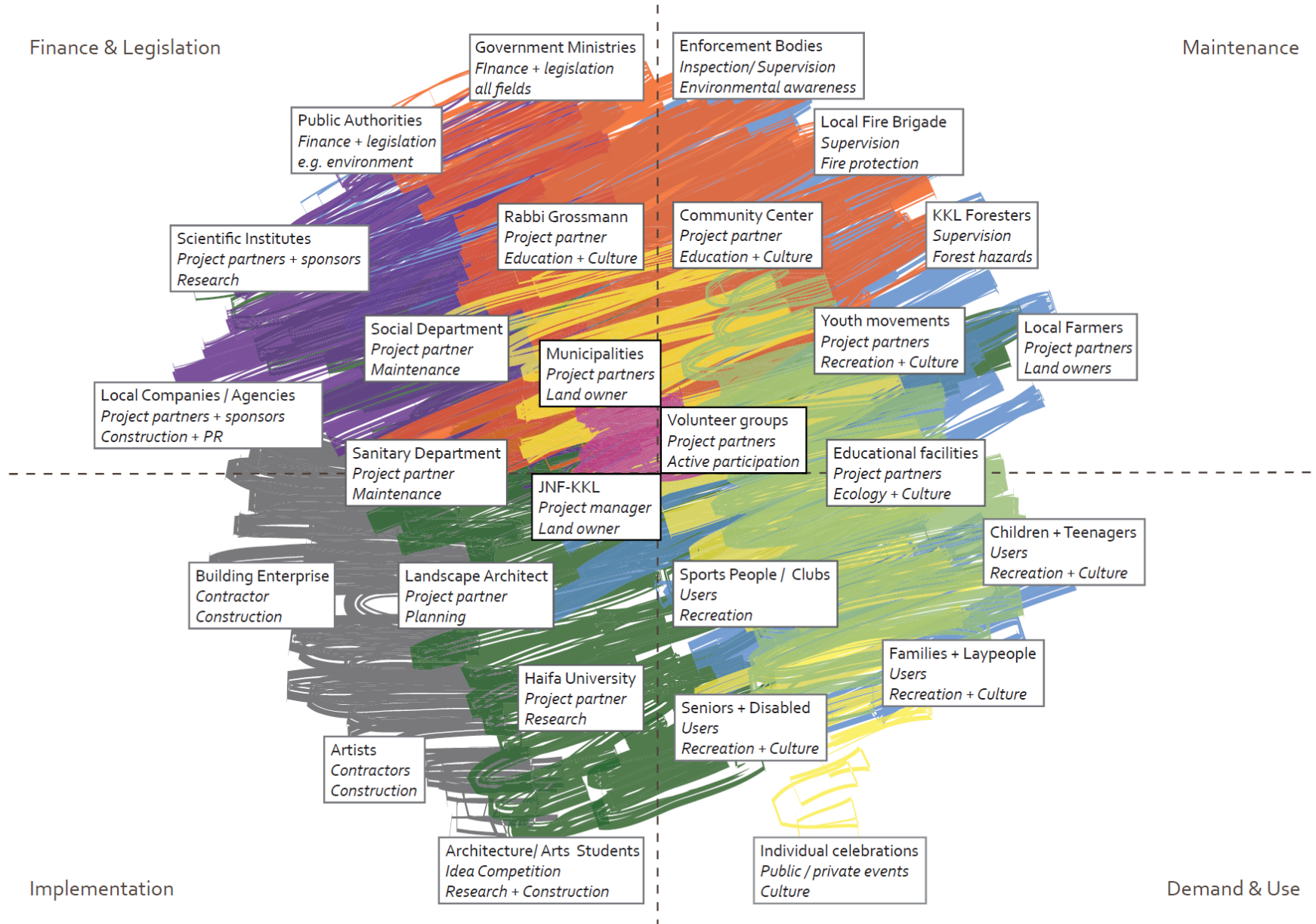


Migdal HaEmek - Yafia - Ginegar //

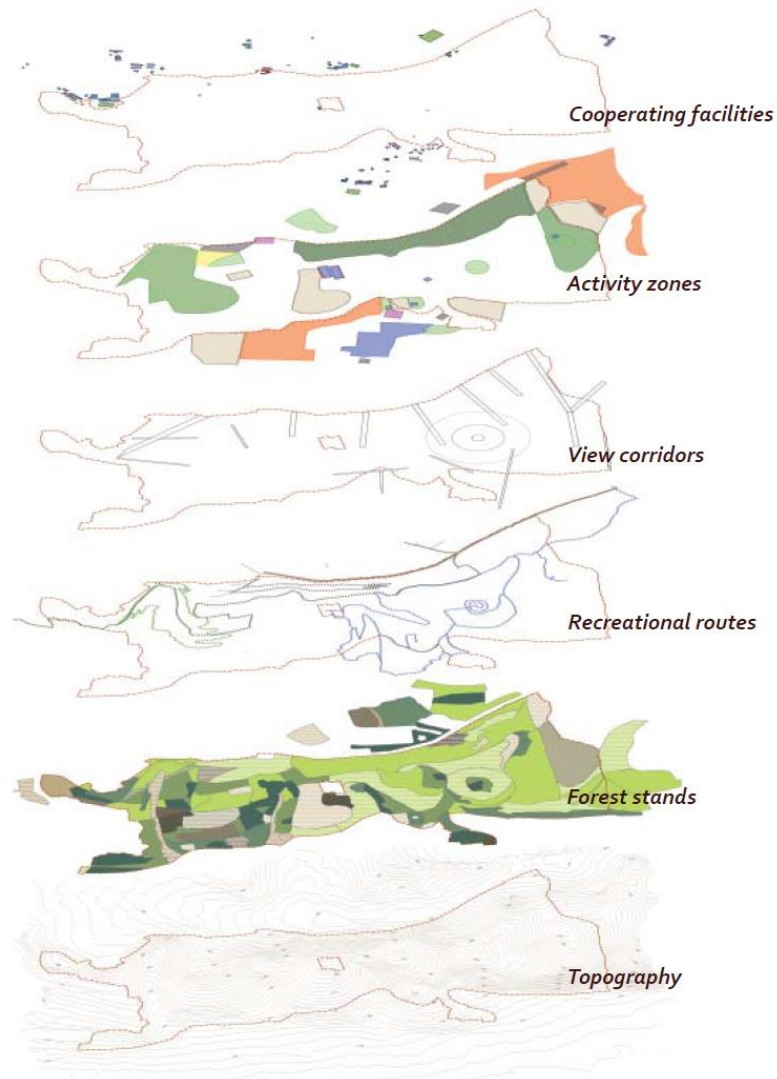
Public participation

- To participate in the management of their ***immediate environment***
- To offer options for ***sociocultural encounter, communication and cooperation***
- To enhance ***local conditions*** together

Community-based forest management



Components of the development plan





Balfour Forest

Scale: 1:10,000

Concept (Part I): Landscape features and scenic views

Implementation of various educational routes with different kinds of lookouts that offer beautiful views into the re-designated and extended landscape of Balfour Community Forest and beyond.

Border line

- Balfour Forest
- Private plot, stand or field

Topography

- Conture line
- Topographical feature

Hydrology

- Stream
- Intermittent stream

Routes

- Balfour Promenade
Dismantling of road no. 7756
- Eco Route
- History Route
- Planar Route
- Cycle Route

Forest stands (full / medium density)

- Aleppo-Pine (Jerusalem Pine)
Pinus halepensis
- Calabrian Pine (Brutian Pine)
Pinus brutia
- coniferous woodland
var. spec.
- Mediterranean Cypress (Italian Cypress)
Cupressus sempervirens
- mixed woodland
var. spec.
- deciduous woodland
var. spec.
- Red Gum Tree (River Red Gum)
Eucalyptus camaldulensis
- Olive Tree or Carob Tree
Olea europea or *Ceratonia siliqua*
- Phrygana (Batha)
var. spec.

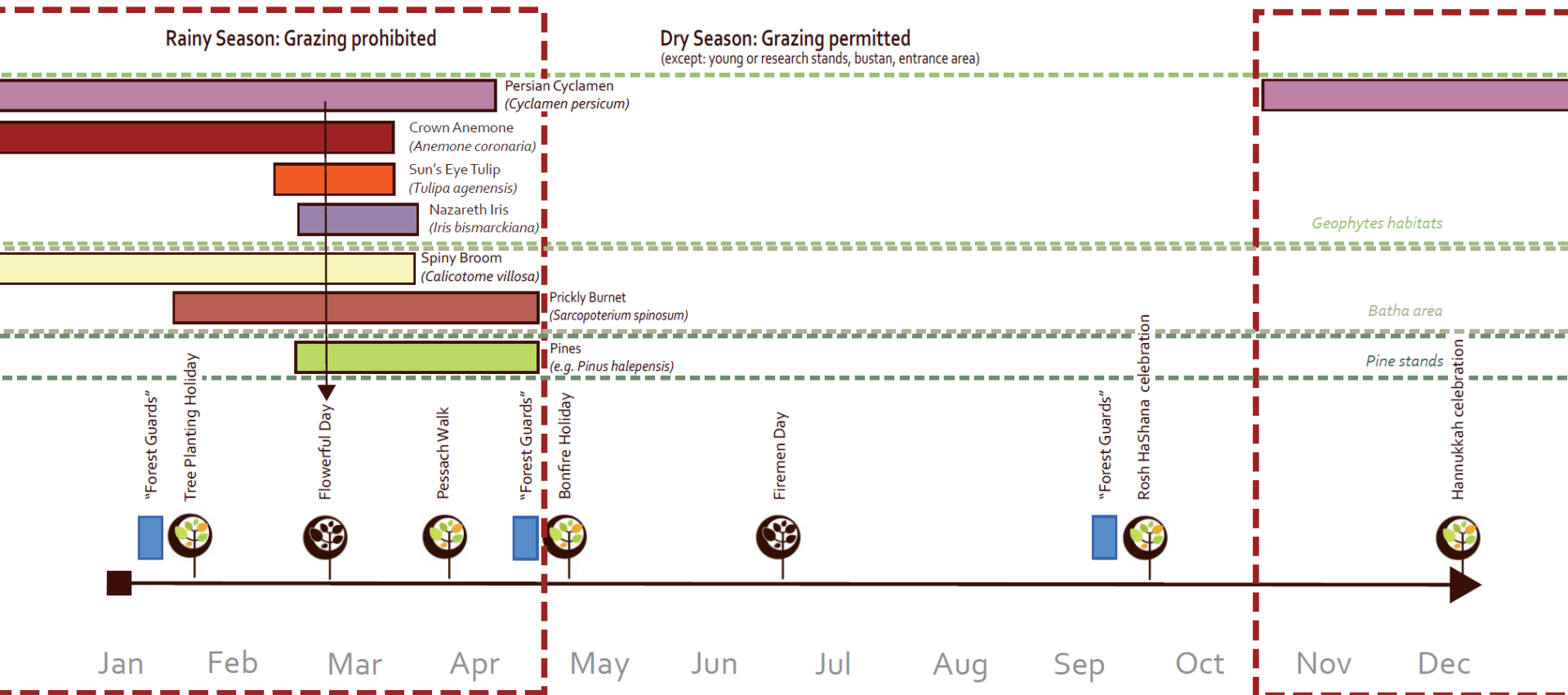
Balfour Community Forest // Landscape features & scenic views

- To preserve **important and unique landscape features**
- To highlight **remarkable scenic view axes** and **reduce forest fires**
- To create a **natural mix** of dense and medium dense forest stands
- To (re)introduce **traditional agroforestry uses**

Particular management

blossom

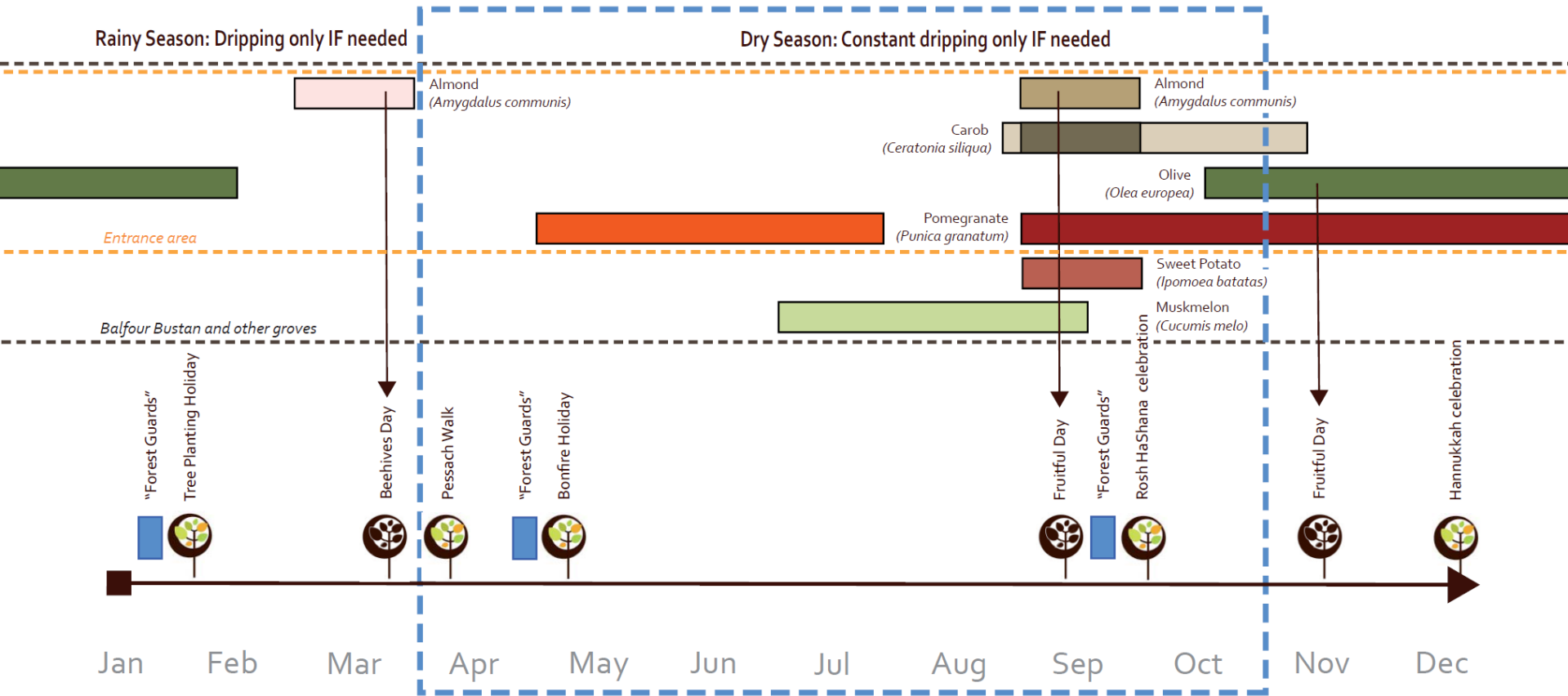
Annual Management Planning - *Geophytes habitats, batha and pine stands in general*



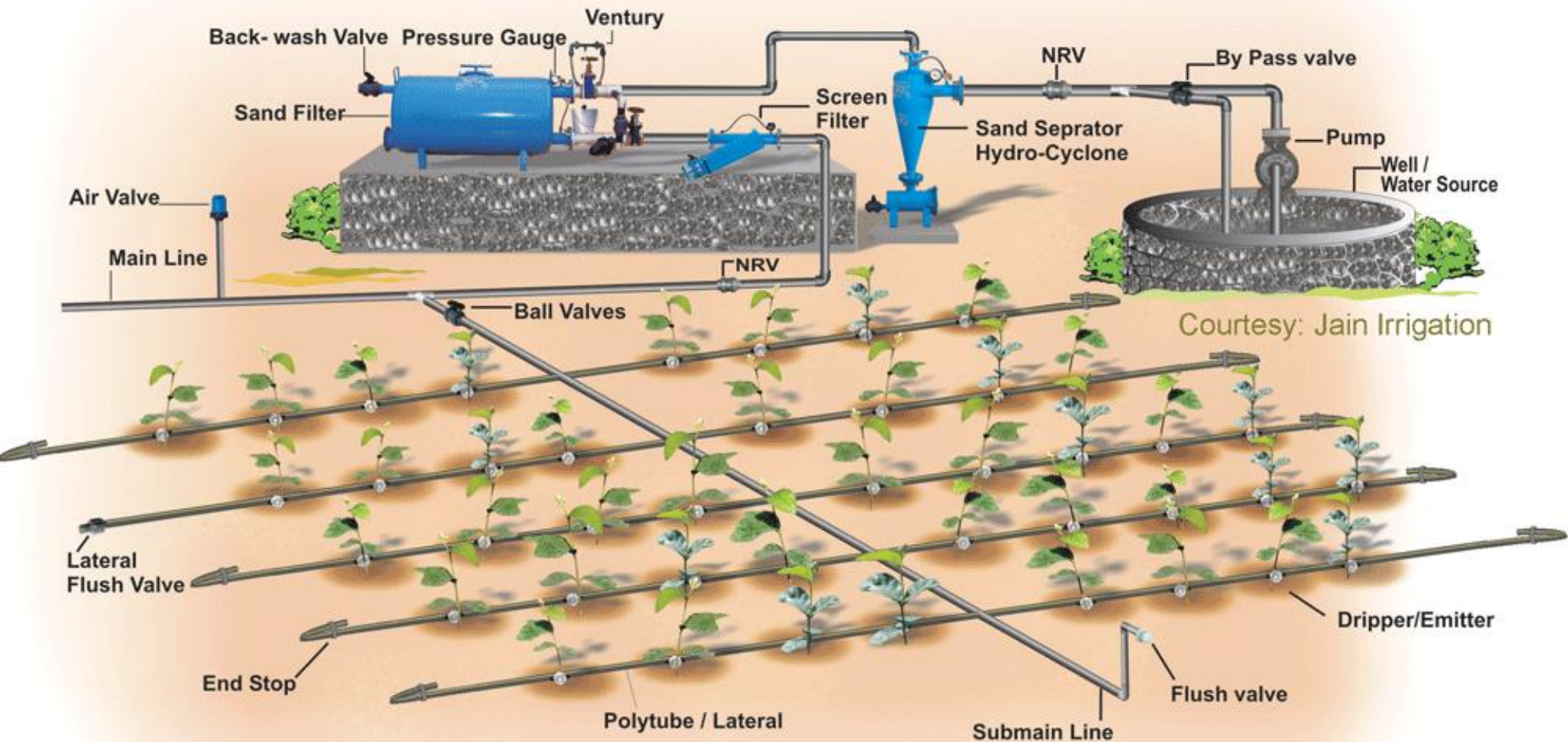
Particular management

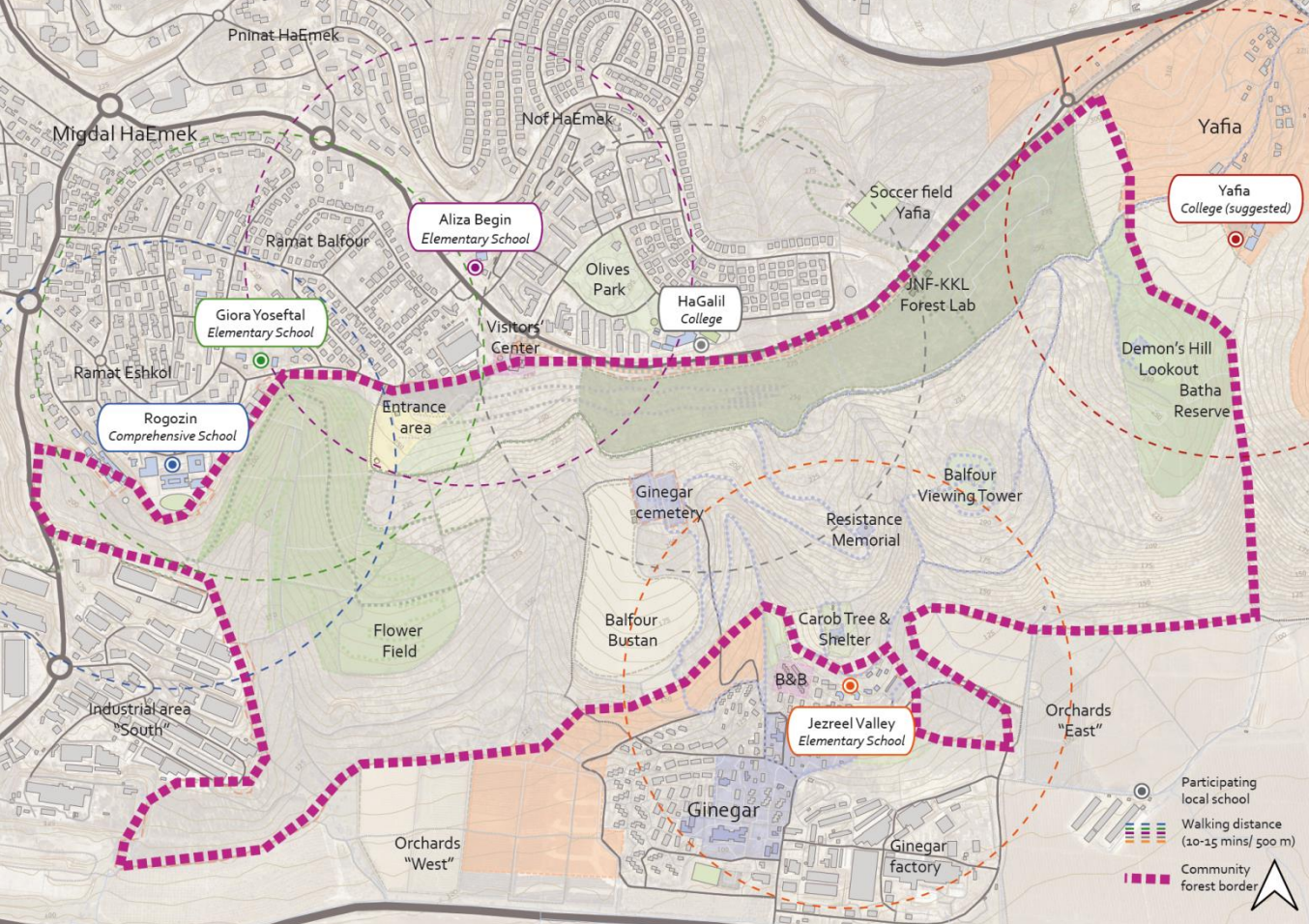
harvest

Annual Management Planning - *Bustan, entrance area, groves and orchards in general*



Drip irrigation for Balfour Bustan



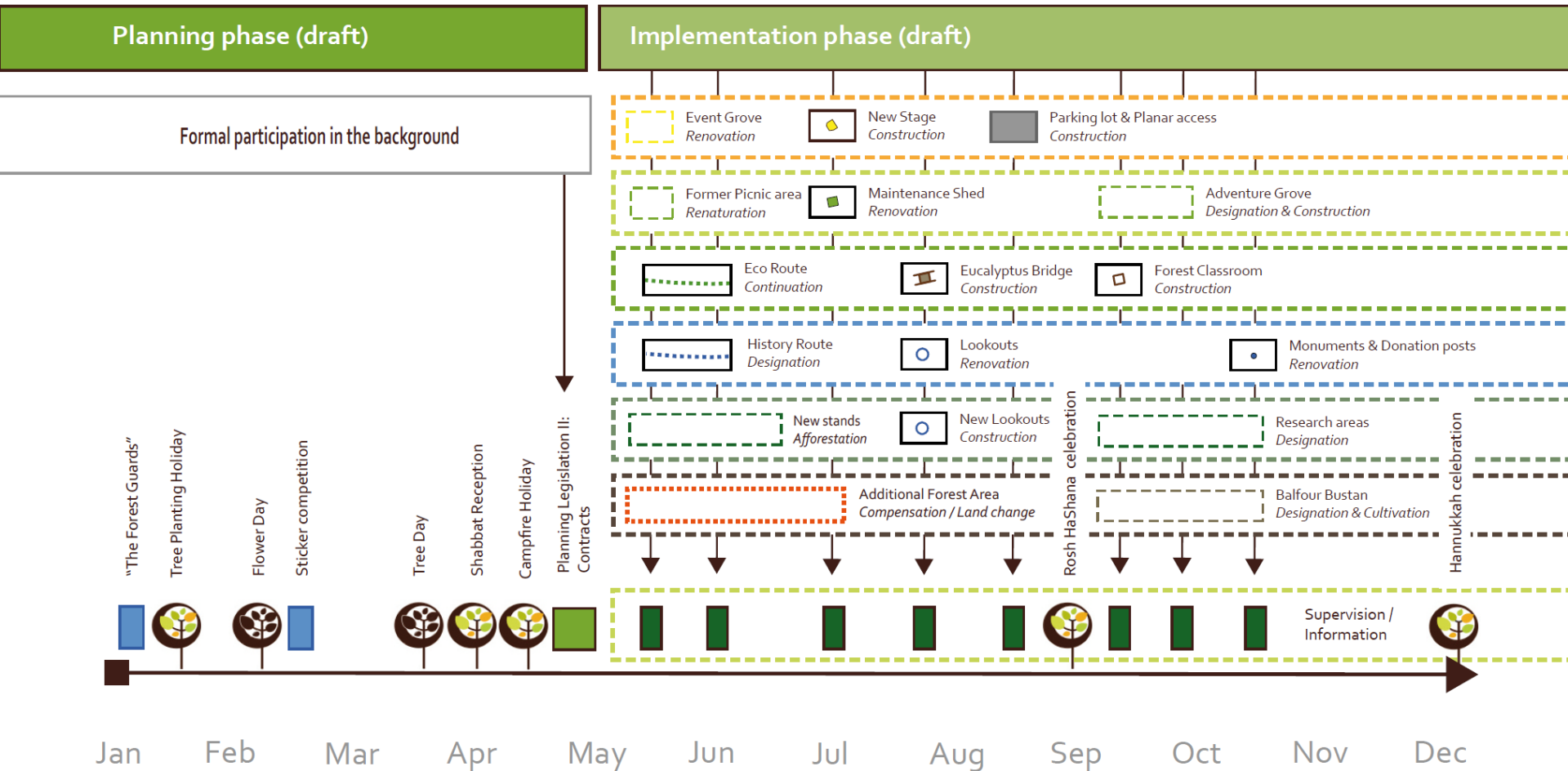


Balfour Community Forest // Activity zones & cooperations

- To propose suitable areas for ***parking and residential extension***
- To preserve ***cultural heritage sites***
- To suggest reuse or redevelopment of ***existing infrastructure***
- To involve ***local schools*** into the project and long term maintenance

Community-based forest management

2010

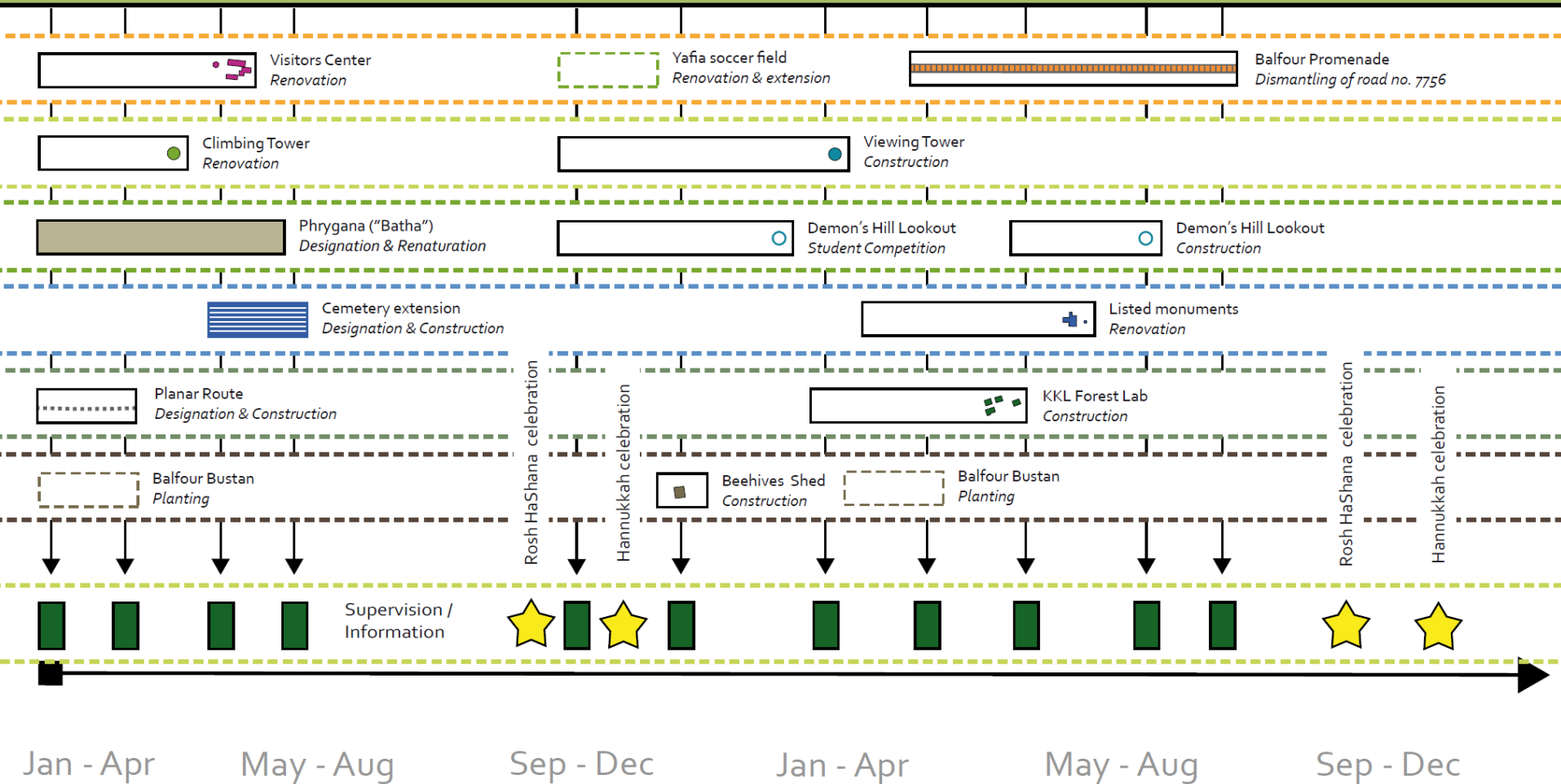


Community-based forest management

2011

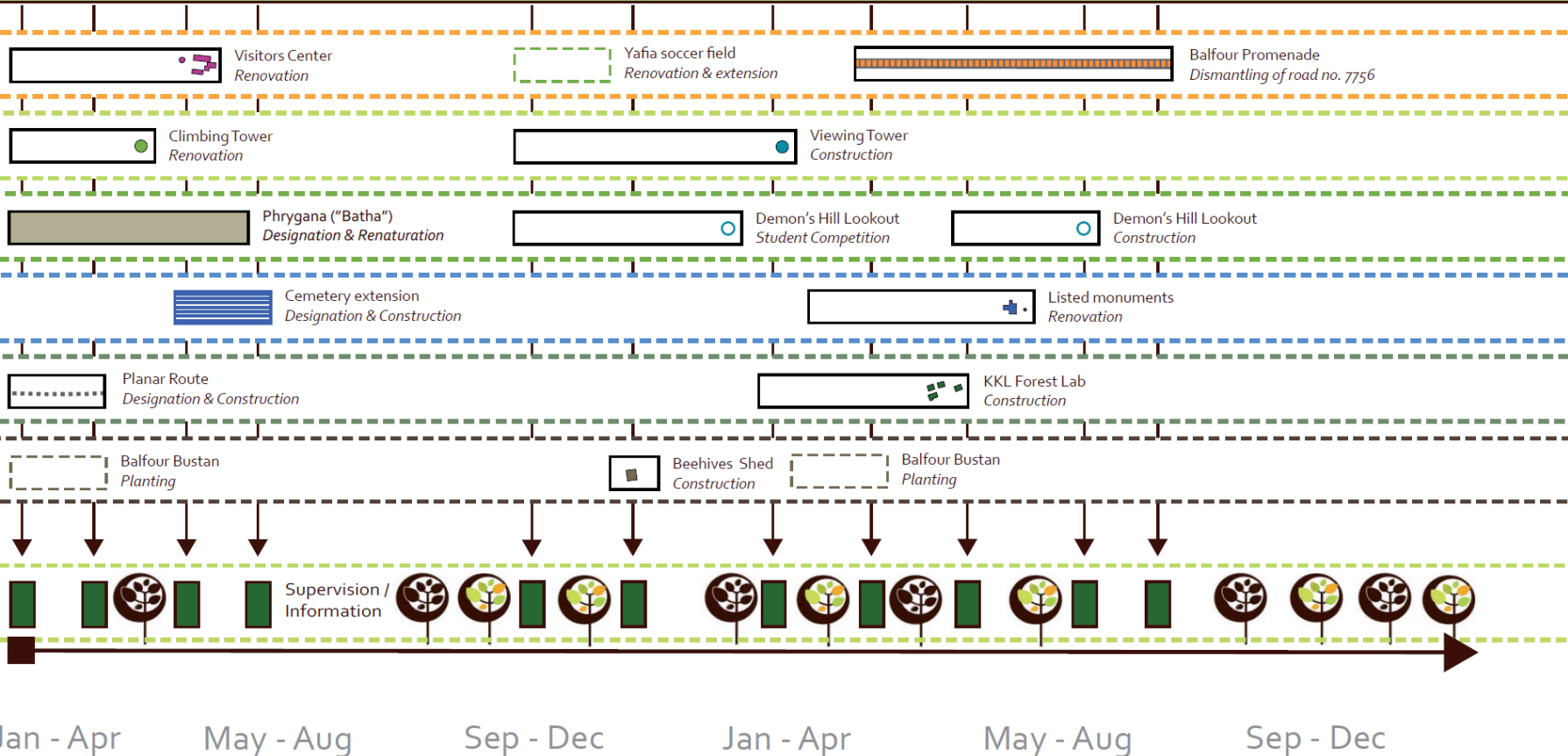
2012

Implementation phase (draft)

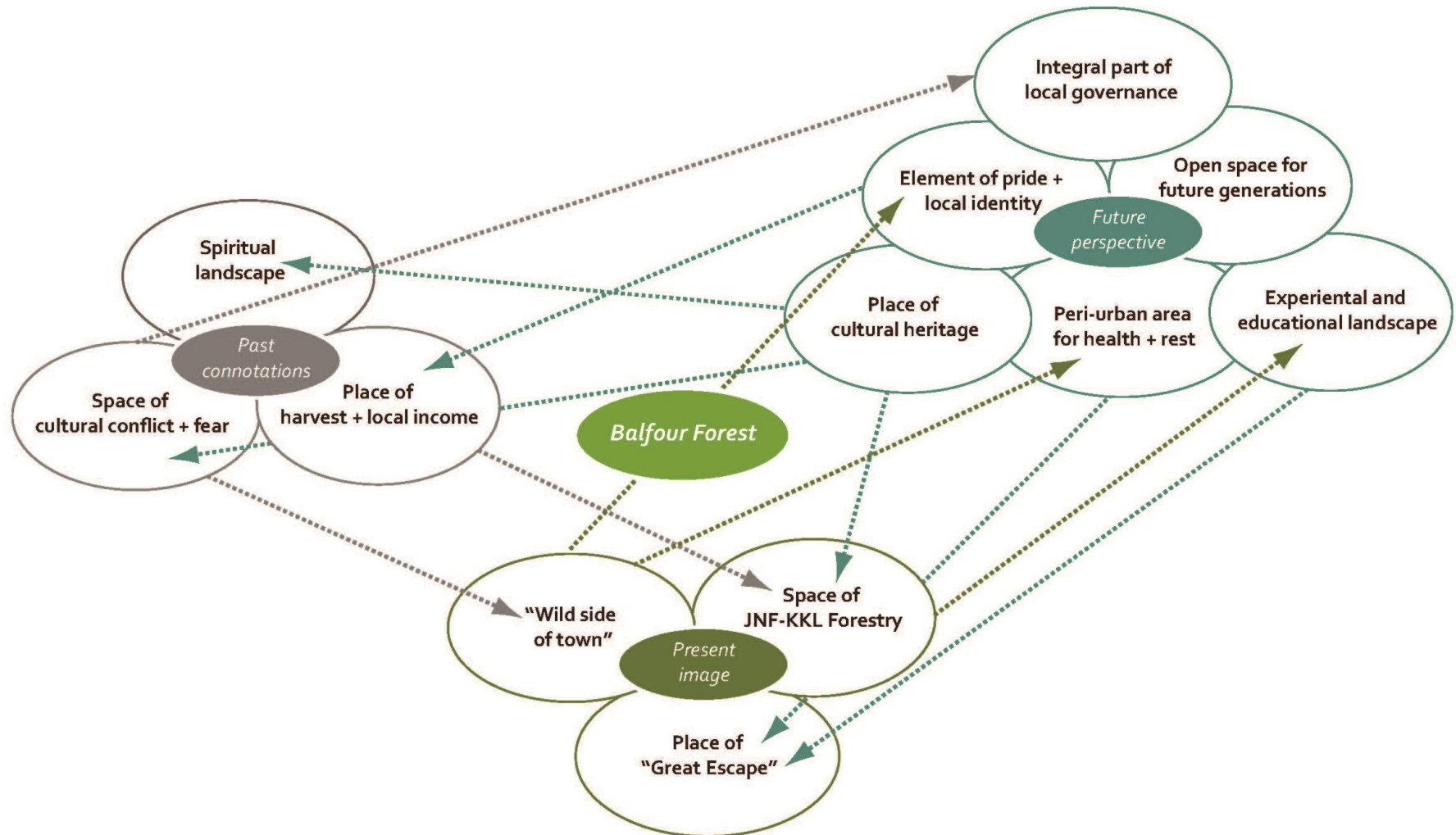


Community-based forest management ...2015

Implementation phase (draft)



Project result expectations





Design proposals
for specific forest areas



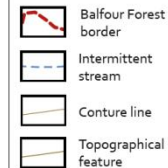
Balfour Forest

Scale: 1:5,000

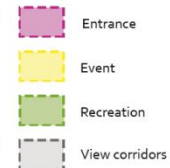
"Eco Route" and entrance area

Implementation of a medium-size educational walking route through various landscapes in the western part of the forest, partly on existing roads, partly on new footpaths.

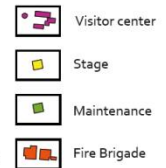
Basics



Zones



Public facilities



Access



Routes



Specific actions



Activity infrastructure



Forest stands



Balfour Community Forest // Detail area *Eco Route*

- To emphasize **protected geophytes** in different forest stands
- To raise **ecological awareness**
- To establish **public partnerships for maintenance** with nearby schools



Balfour Community Forest // Detail
Eco Route



Balfour Community Forest // Detail
Signs



Balfour Community Forest // Detail
Forest Art



Balfour Community Forest // Detail
Forest classroom



Balfour Community Forest // Detail
Eucalyptus Corridor



Balfour Community Forest // Detail
Adventure Grove



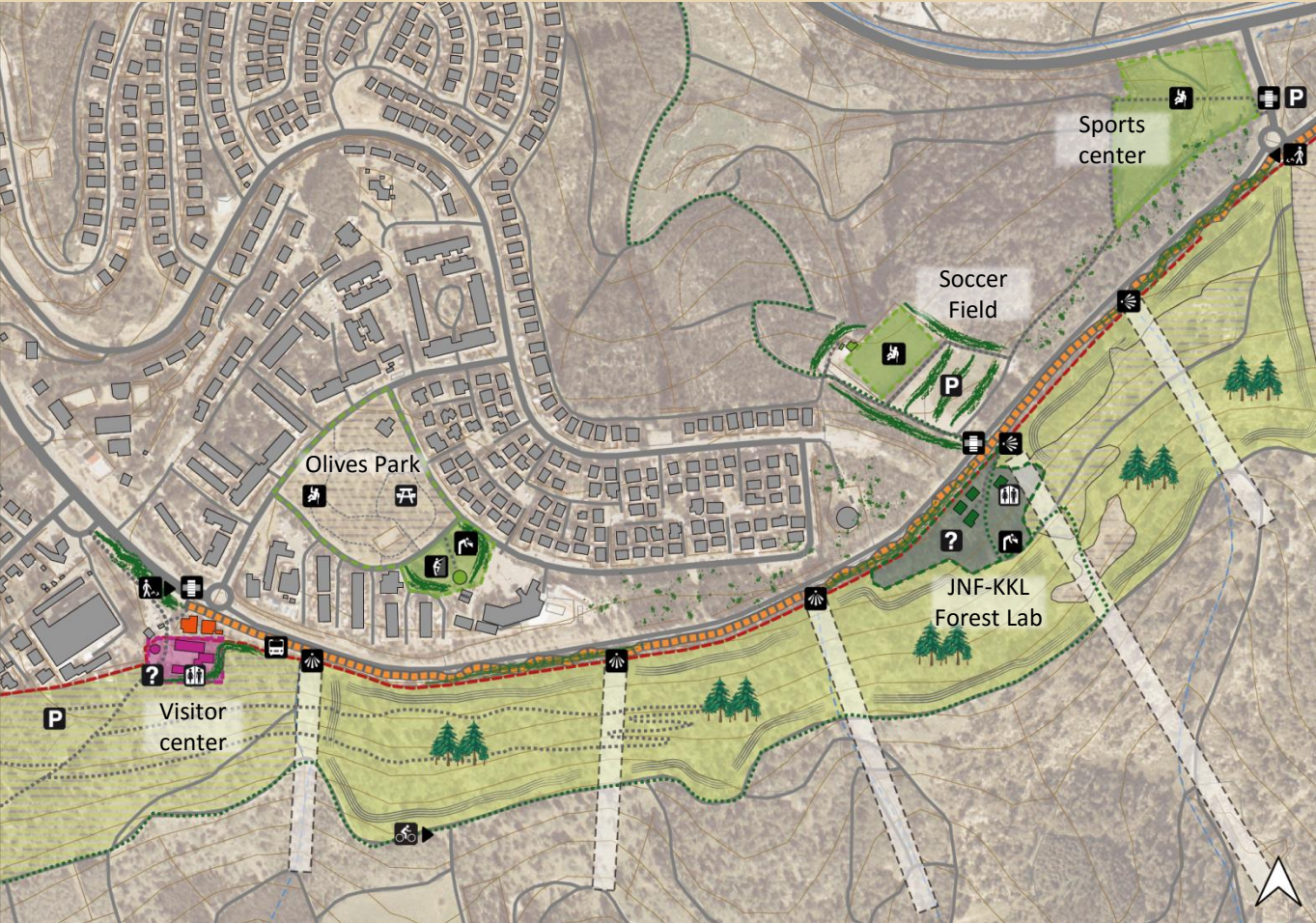
Balfour Community Forest // Detail
Campsite



Balfour Community Forest // Detail
Picnic tables



Balfour Community Forest // Detail
Forest stage



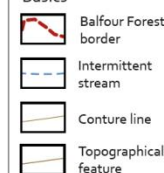
Balfour Forest

Scale: 1:5,000

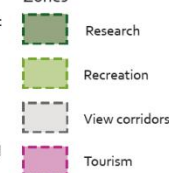
"Balfour Promenade" and KKL Forest Lab

Implementation of a planar scenic and educational route between Yafia and Migdal HaEmek along main road no. 7756, and reactivation of the tree nursery site as a forest laboratory.

Basics



Zones



Public facilities



Access



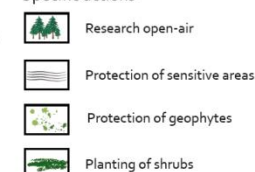
Routes



Activity infrastructure



Specific actions



Forest stands



Balfour Community Forest // Detail area *Balfour Promenade*

- To implement a **safe pedestrian and bike route** between Migdal HaEmek and Yafia
- To offer opportunities for **social encounter "on the way"**
- To enable several **view corridors towards Jezreel Valley**



Balfour Community Forest // Detail
Promenade design



Balfour Community Forest // Detail
Sitting walls



Balfour Community Forest // Detail
Viewpoint



Balfour Community Forest // Detail
Scenic view map



Balfour Community Forest // Detail
JNF-KKL Forest Lab

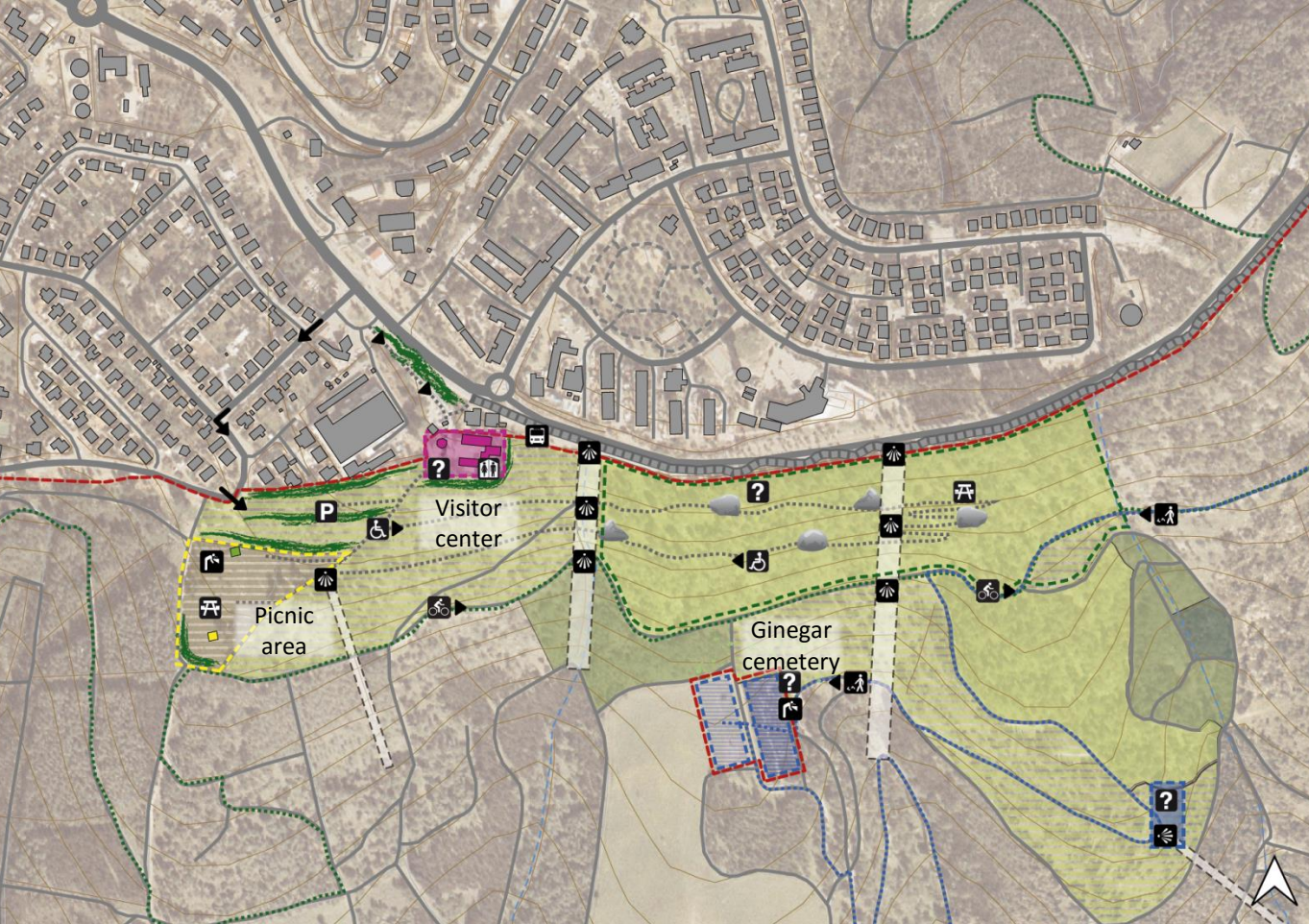


Balfour Community Forest // Detail

JNF-KKL Plant Nursery site



Balfour Community Forest // Detail
Road crossing



Balfour Forest

Scale: 1:5,000

"Planar Route" and Ginegar cemetery area

Implementation of a small-size planar educational route through the upper slope side in the northern part of the forest, and a large-size educational route along historical sites.

Basics

	Balfour Forest border
	Intermittent stream
	Contour line
	Topographical feature

Zones

	Entrance
	Event
	Research / Preservation
	Cultural heritage

Public facilities

	Visitor center
	Stage
	Maintenance
	Ginegar cemetery (extension)

Access

	Existing road
	Planar access

Routes

	Planar Route
	History Route
	Cycle Route

Activity infrastructure

	Planar Route
	Educational Route here: History Route
	Forest Classroom
	Viewpoint
	Cycle Route
	Picnic Grove
	Drinking Tab
	Toilets
	Parking
	Bus stop

Specific actions

	Protection of geophytes
	Planting of shrubs
	Placement of local rocks

Forest stands

	Aleppo-Pine <i>Pinus halepensis</i>
	Calabrian Pine <i>Pinus brutia</i>
	Mediterranean Cypress <i>Cupressus sempervirens</i>
	deciduous woodland var. spec.

Balfour Community Forest // Detail area *Planar Route*

- To ensure **comfortable moving on level ground** for people with special needs
- To create **accessible connections** to the entrance area
- To enhance attraction and safety by offering **special equipment**



Balfour Community Forest // Detail
Bollards



Balfour Community Forest // Detail
Entrance area



Balfour Community Forest // Detail area
Route design



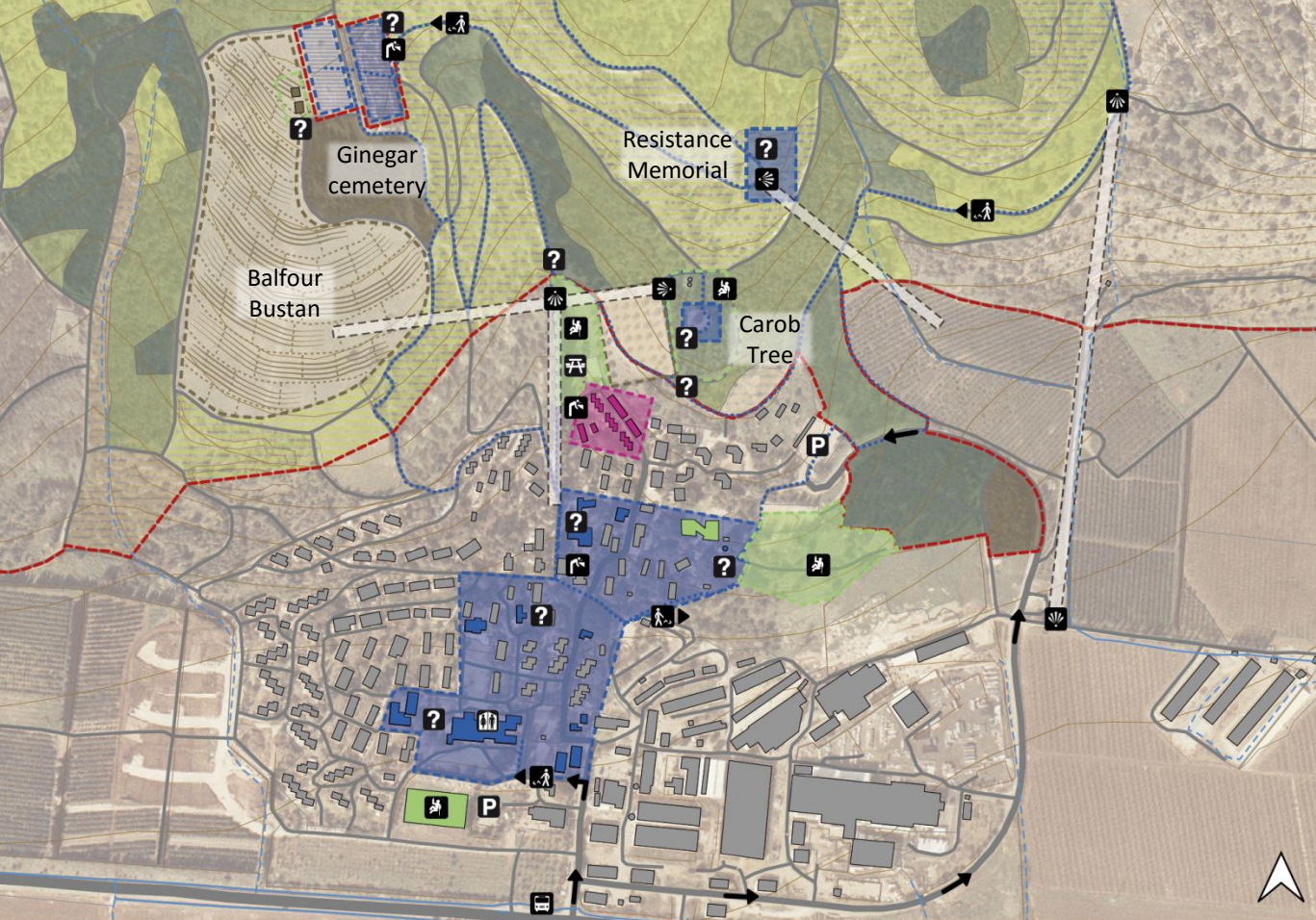
Balfour Community Forest // Detail area
Curve design



Balfour Community Forest // Detail
Picnic tables



Balfour Community Forest // Detail area
Planar decks



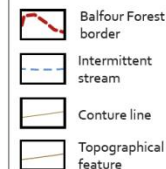
Balfour Forest

Scale: 1:5,000

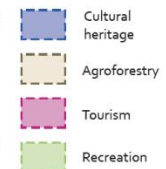
"History Route" and Balfour Bustan

Implementation of a large-size educational route along listed kibbutz monuments and cultural heritage sites in the southern forest fringe area and reactivation of the open field as a bustan.

Basics



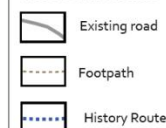
Zones



Public facilities



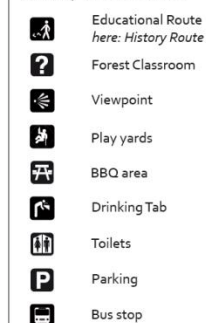
Access and Routes



Specific actions



Activity infrastructure



Forest stands



Balfour Community Forest // Detail area History Route

- To explore the kibbutz and its **traditional land uses: intercropping and beekeeping**
- To offer **view corridors** from/towards elements of cultural heritage
- To inform about **local Arab and Jewish history** objectively



Balfour Community Forest // Detail Sign



Balfour Community Forest // Detail
Magical corner



Balfour Community Forest // Detail
Carob tree meeting area

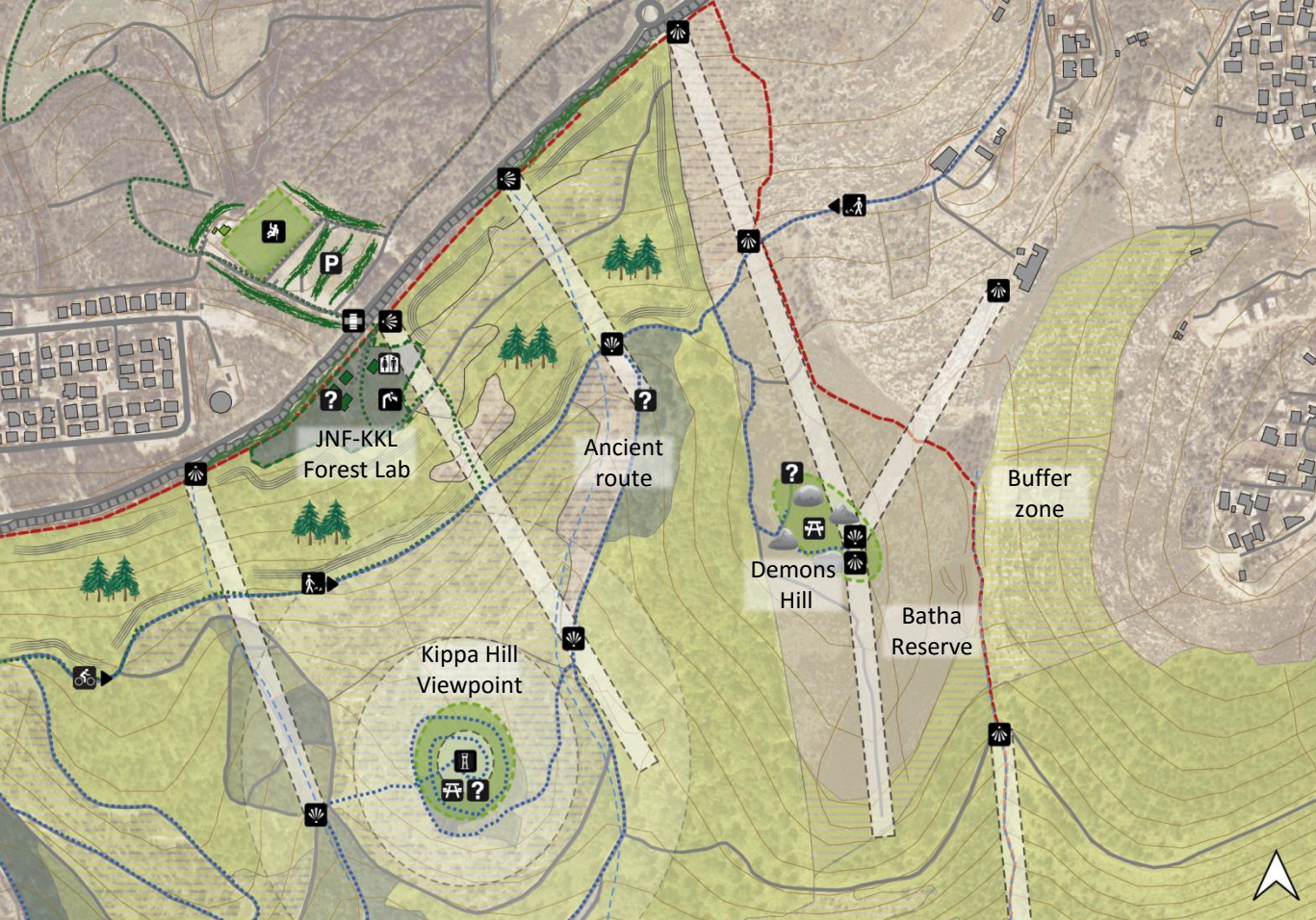


Balfour Community Forest // Detail
Beekeeping station



Balfour Community Forest // Detail

Balfour Bustan



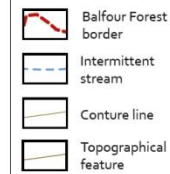
Balfour Forest

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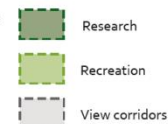
"Balfour Viewing Tower" and "Demon's Hill Lookout"

Implementation of a 360° viewing tower and a lookout platform on two ridgetops in the eastern forest part along a large-size educational route through local cultural and spiritual landscapes.

Basics



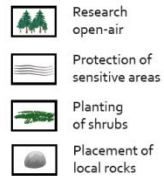
Zones



Public facilities



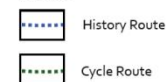
Specific actions



Access



Routes



Activity infrastructure



Forest stands



Balfour Community Forest // Detail area Kippa Hill & Demons Hill

- To explore **traces of ancient settlements** and traditional land uses: **olive grove**
- To implement a view tower as a **landmark for the Jezreel Valley**
- To create a **lookout and picnic area** in the batha reserve for Yafia residents



Balfour Community Forest // Detail
Route design



Balfour Community Forest // Detail
Play structure



Balfour Community Forest // Detail
Picnic tables



Balfour Community Forest // Detail
Spiritual forest art



Balfour Community Forest // Detail
Batha Reserve



Balfour Community Forest // Detail
Demons Hill Lookout



Balfour Community Forest // Detail
Orientation field