

# Tara Boombastic



Kremna, Serbia

# Interview

~ A peaceful life in community

Self efficiency  
Financial stability  
Educational exchange



Residents: 😊

- 2 permanent
- 2 come & go
- < 15 volunteers

To begin: ☀️

- 0.5 hectares
- Spring water close by
- 85.000 € – 150.000 €

Condicionants:

- Satellite internet
- National park
- Wild animals around

Income:

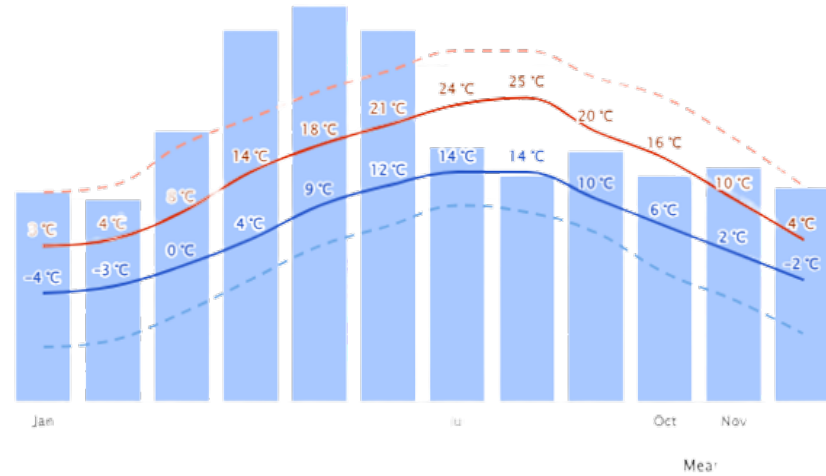
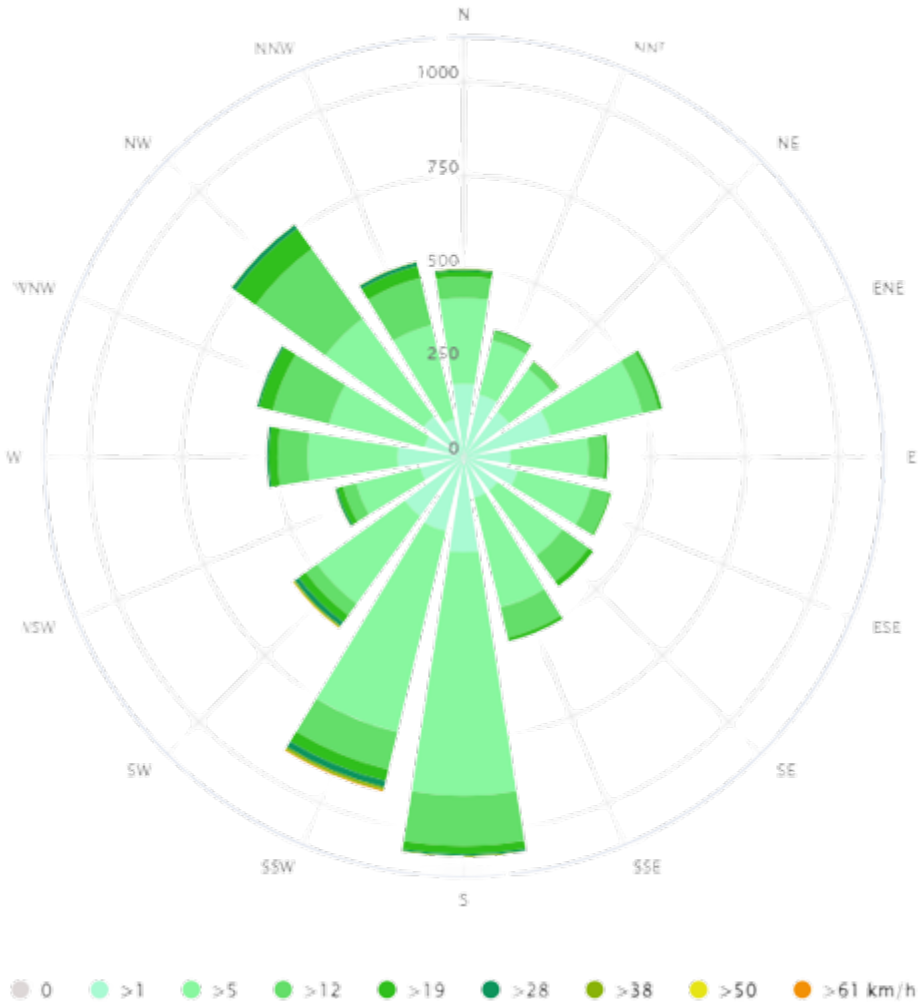
- Agrotourism
- Erasmus projects
- Nuts, fruits & veggies, honey and mushrooms



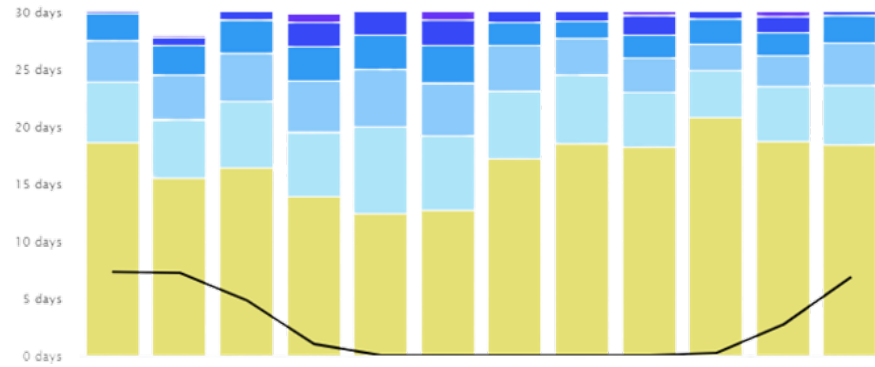
Resources:

- Solar panels
- Water harvesting
- Timber

# SECTORS



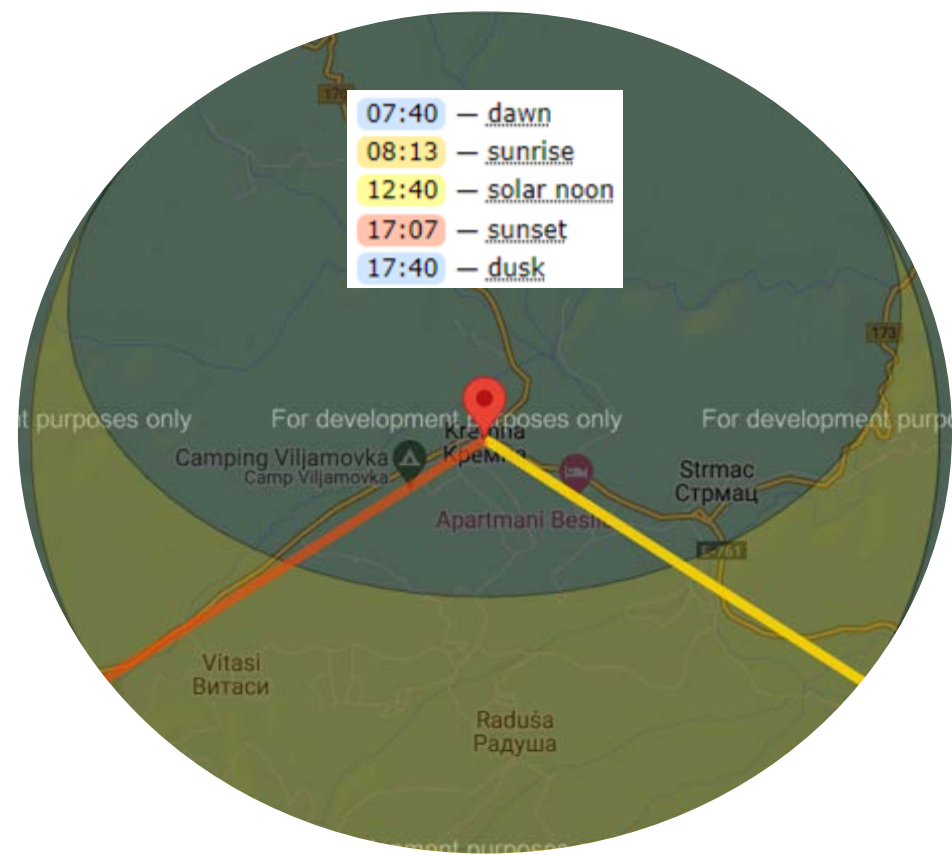
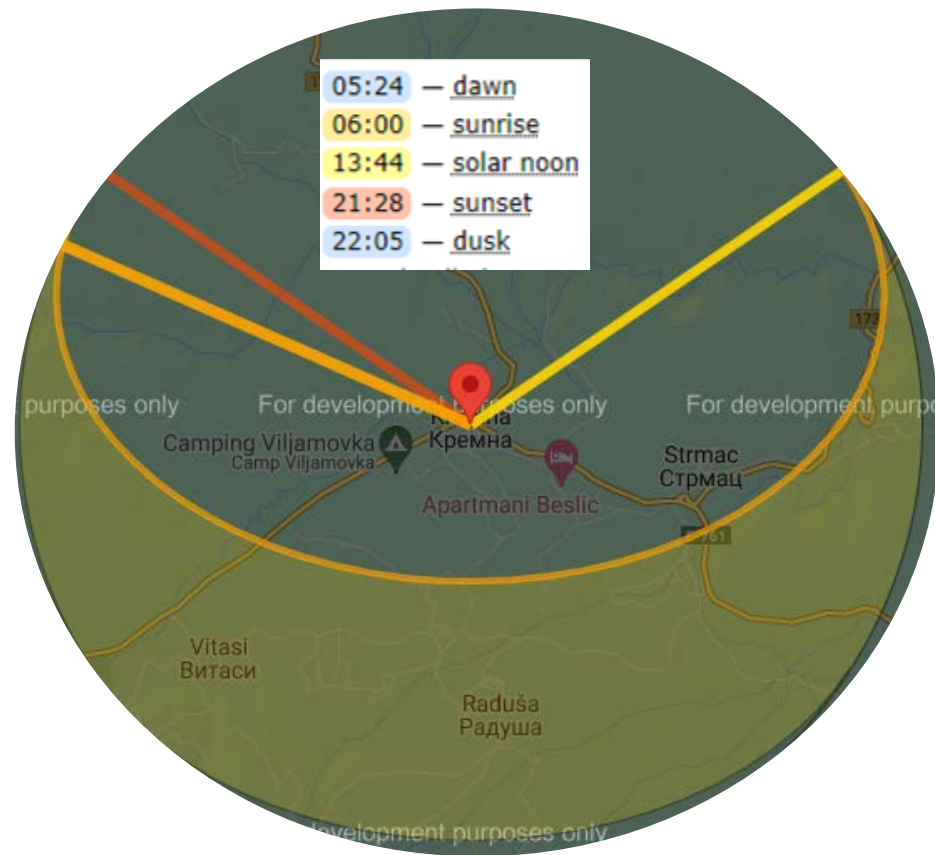
Precipitation amounts



# Extreme climatic events









# Kremna, Serbia





# Starting elements

## Farming facilities:

- Green house
- Chicken house
- Bee hives
- Compost



## Households:

- Main house
- Guest house for 2 p
- Guest house for 3 p

1



## Facilities:

- Community space
- Sauna & bee sauna
- Dry toilet
- Platforms for volunteers

2



3/4

## Structures:

- Pond
- Grey water treatment
- Food forest
- Aromatics
- Area for mushrooms, timbers and more food production
- Fences

# Dimensions



- Pond -  $5 \times 10 \text{ (x2)} = 50m^2$ 
  - Sauna -  $2 \times 1.5 = 3m^2$
- Grey water -  $2 \times 4 = 8m^2$
  
- Guest House 1 -  $6 \times 4 = 24 m^2$
- Guest House 2 -  $6 \times 4 = 24 m^2$
  
- Bombastic House -  $8 \times 5 = 40 m^2$
- Community Space -  $10 \times 10 = 100m^2$ 
  - WC -  $2 \times 2 = 4m^2$
- Volunteers base(s) -  $2 \times 2 \times 5u = 20m^2$
  
- Greenhouse -  $20 \times 5 = 100m^2$ 
  - Chickens -  $8 \times 5 = 40m^2$



# Plant Power

TREES	Common Name	Latin Name	Functions
local	Sessile oak	Quercus petraea	
local	Turkey oak	Quercus cerris	
local	Beach	Fagus sylvatica	Nuts
local	Common Ash	Fraxinus excelsior	
local	Black Pine	Pinus nigra	*Edible
local	Baltic pine	Pinus sylvestris	
local	European Spruce	Pinus abies	*Edible
local	Serbian Spruce	Picea omorika	
local	Blue spruce	Picea pungens	
local	Yew	Taxus baccata	



Spacing in row 20cm  
 Spacing between trees 1.2m  
 Floor Low Floor Low Floor  
 Spacing between rows 3m  
 Row length 28.8m, 144 plants per row  
 Orientation N/S

Plants	Pattern	Total in Row
Floor	12	36
Low	8	24
Med	1	3
High	2	6
Em	1	3
<b>Total</b>	<b>24</b>	<b>72</b>

Plants in pattern	24	Repeat pattern	3	Row length	14.4																		
Em	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Med	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor
Floor	Low	Floor	Em	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Med	Floor	Low	Floor	Low	Floor	High	Floor	Low
High	Floor	Low	Floor	Low	Floor	Em	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Med	Floor	Low	Floor	Low	Floor
Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Em	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Low	Floor	Med
Med	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Em	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor
Floor	Low	Floor	Med	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Em	Floor	Low	Floor	Low	Floor	Low	Floor	High
High	Floor	Low	Floor	Low	Floor	Med	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Em	Floor	Low	Floor	Low	Floor
Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Med	Floor	Low	Floor	Low	Floor	High	Floor	Low	Floor	Low	Floor	Low	Floor	Em

Emergent per row	3	
Walnut	1	
Mulberry	1	
Common Ald	1	Support

High per row	6	
Pear	2	
Apple	2	
Willow	2	Support

Med per row	3
Plum	0.5
Apricot	0.5
Peach	0.5
Hazelnut	0.5
Sambucus	0.5
Blackberry	0.5
Low per row	24
Raspberry	6
Bog Bilberry	6
Gooseberry	6
Aronia	4
Winter Heath	2

Floor per row	36		
Asparagus	1		
Daphne	1	Carrot	1
St. John's wd	1	Jerusalem ar	1
Strawberry	14	Garlic Chives	1
Wild garlic	1	Tree Onion	1
Comfrey	1	Daikon raddi	1
Perennial Ro	1	Mustard plan	1
Anise Hyssop	1	Brassica oler	1
Yarrow	1	Asparagus o	1
Liquorice	1	Melissa offici	1
Potato	1	Mentha puleg	1
Sweet Potatc	1	Mentha spica	1

# Energy

## Solar System

- shortest sunlight (Feb) - 4.2h/d
  - longest sunlight (Aug) - 11.2 h/d
  - estim. consumption of E = **5 kwh/d**
  - Panels + batteries + ... **total = 3384 - 5641 €**
  - Government **refund** up to 50%
- + **Wood** - 100€/m<sup>3</sup>
  - + **Gas bottle** - 40€/u





# Budget Building

1. **Stone** - 11€/m<sup>2</sup> => T: **1012€**
2. **Wood** - 10€/m => T: **5000-8000€**
3. **Isolation** (water) - 3.5€/kg => T: **3500€**
4. **Hose** - 1-2€/m => T: **400€**
5. **Other** (roof tiles, wall isolation,...) - **7000€**
6. **Transport** materials - **3000€**
7. **Sauna** - **1800€**

(Alex said 3 houses should be 35.000 in total)



# Farming Budget

1. **Plants** - 500€
2. **Greenhouse** - 4000€
3. **Bees** - 40€/u  
x10 = 400€



# ***Total Expenses***

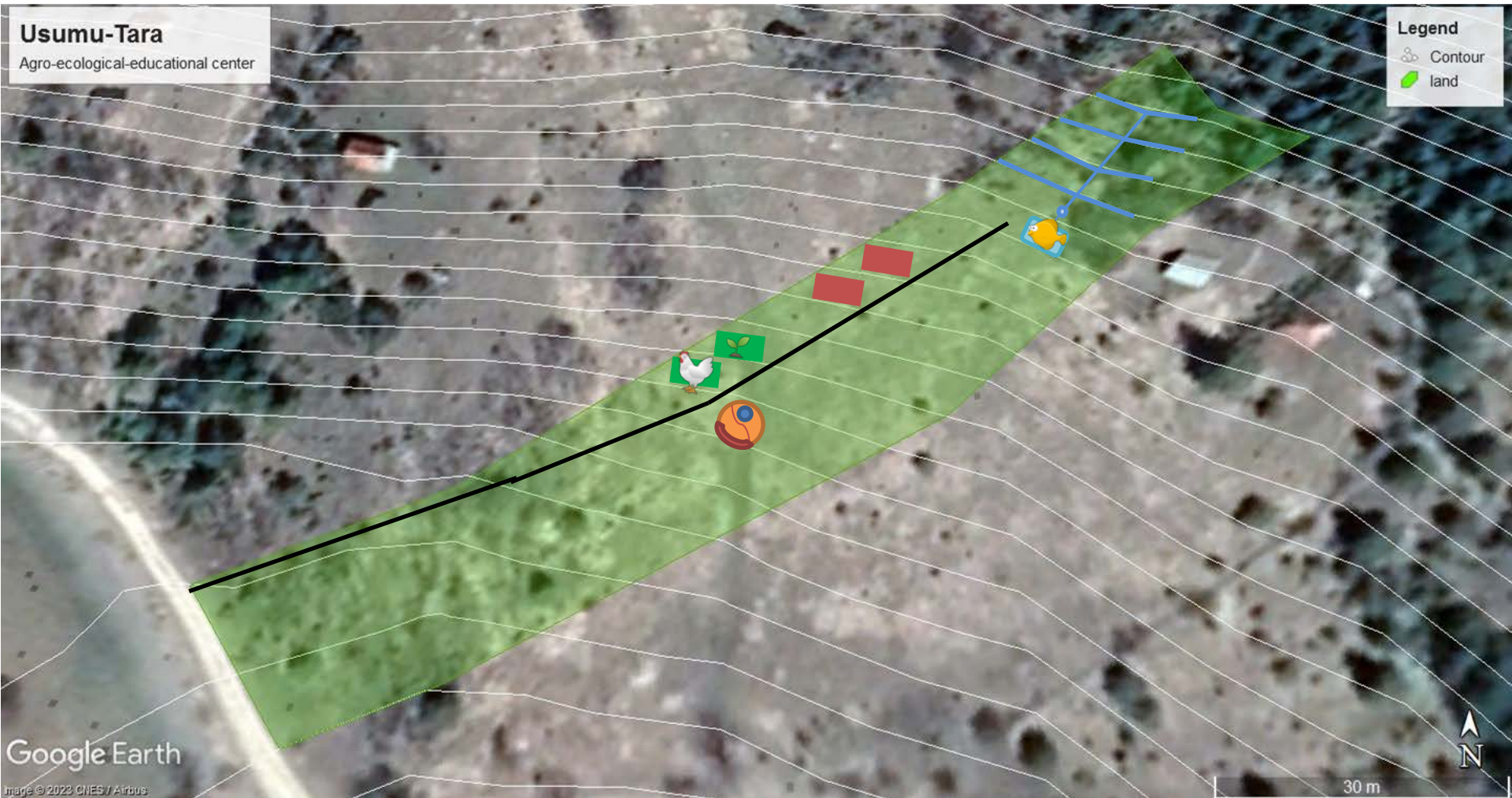
Energy + Building + Farming + SOS

$$6.700 + 40.000 + 5.000 + 15.000 = \mathbf{66.700}$$





# Design Process...



# Bombastic Design



