

Rotary's Climate Forest in the Great Green Wall



TOGETHER, WE

TRANSFORM



Days above 32°C (90°F)



WARMING SCENARIOS:

0.5°C

1°C

1.5°C

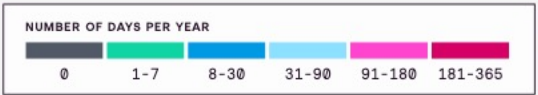
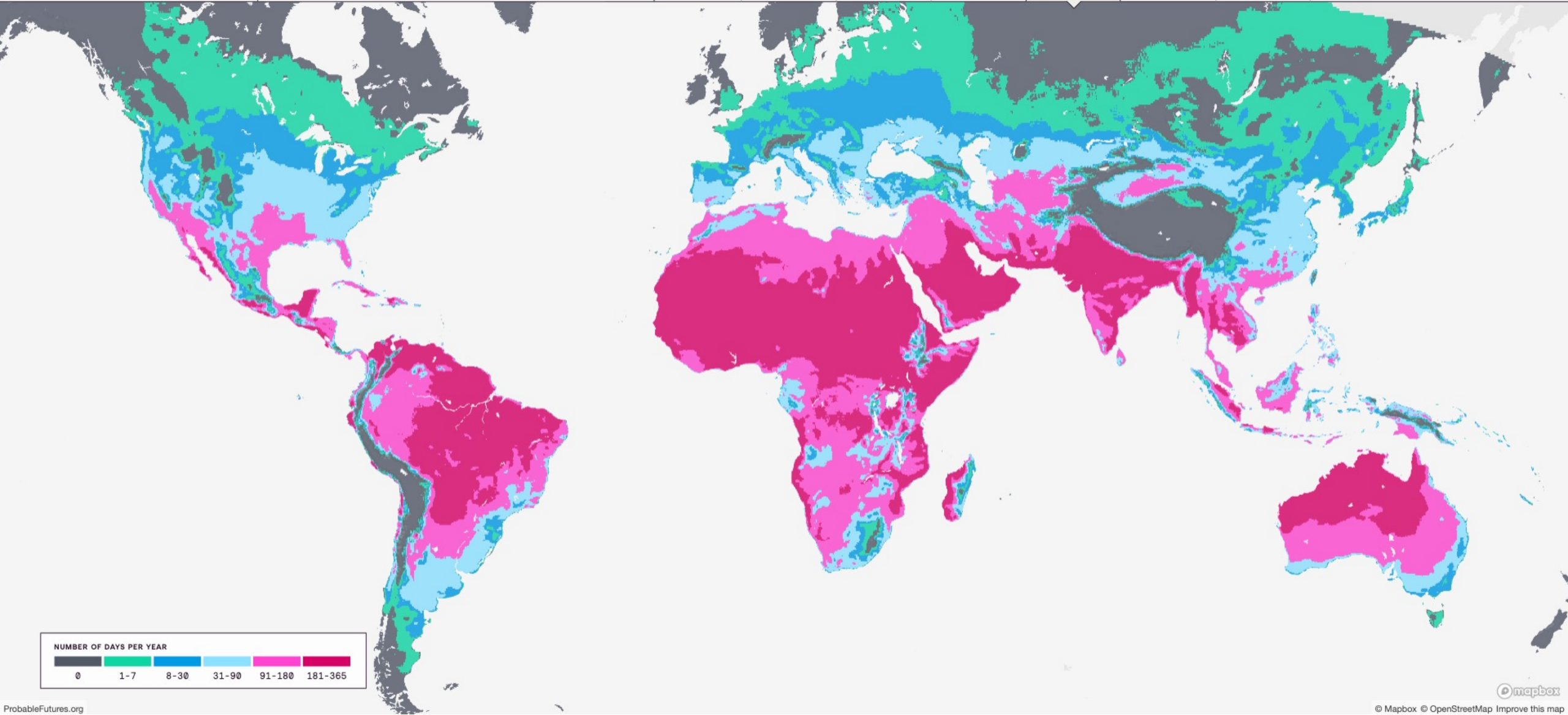
2°C

Potential



2.5°C

3°C



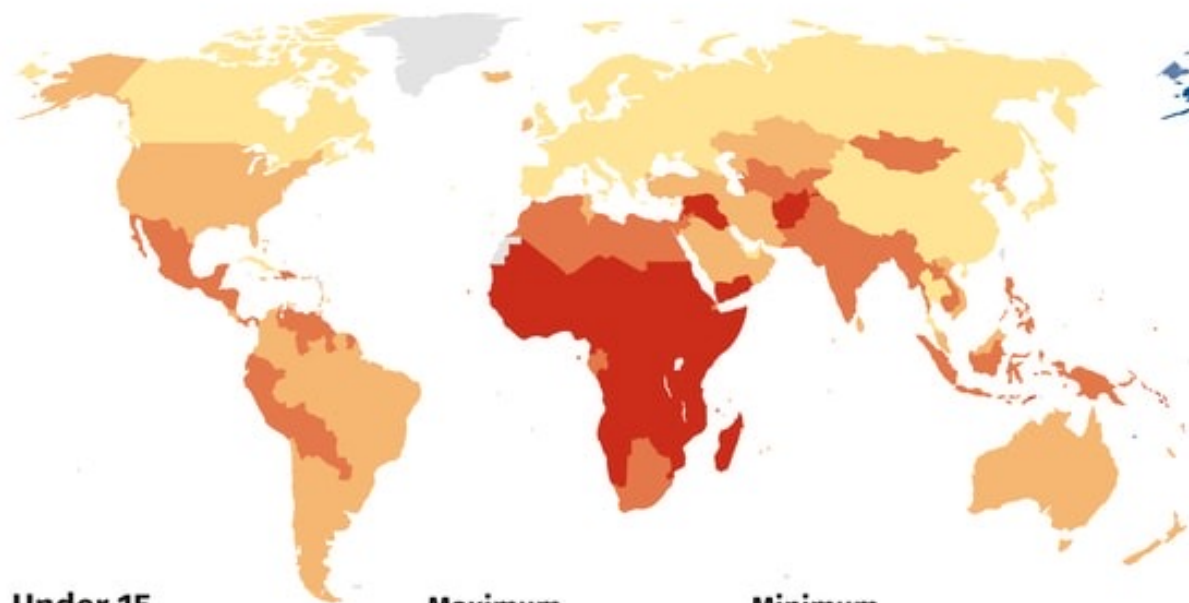


Population of 135 million

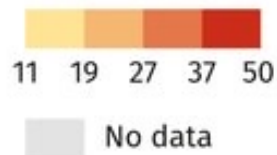
Legend

- Sahel
- Sahel countries

0 325 650 1,300 1,950 2,600 Kilometers



Under 15
(% of pop.)

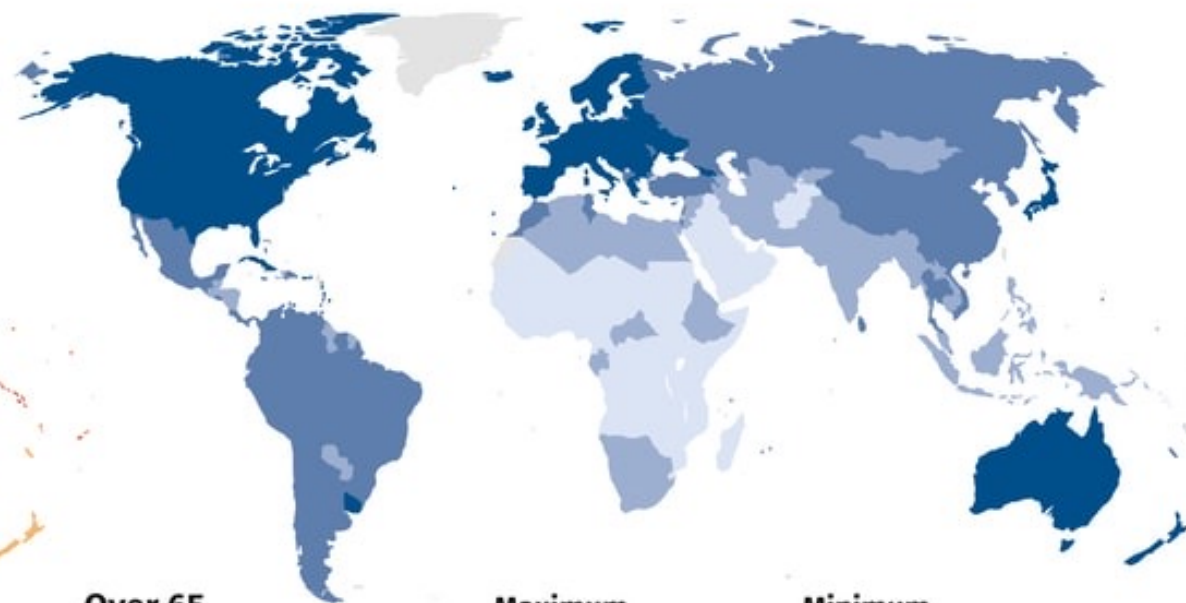


Maximum

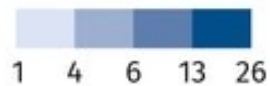
Niger	50.2
Uganda	48.2
Mali	47.9
Chad	47.6
Angola	47.1

Minimum

Japan	13
Germany	13.1
Italy	13.7
United Arab Emirates	13.8
Qatar	13.8



Over 65
(% of pop.)




Maximum

Japan	26.3
Italy	22.4
Greece	21.4
Germany	21.2
Portugal	20.8

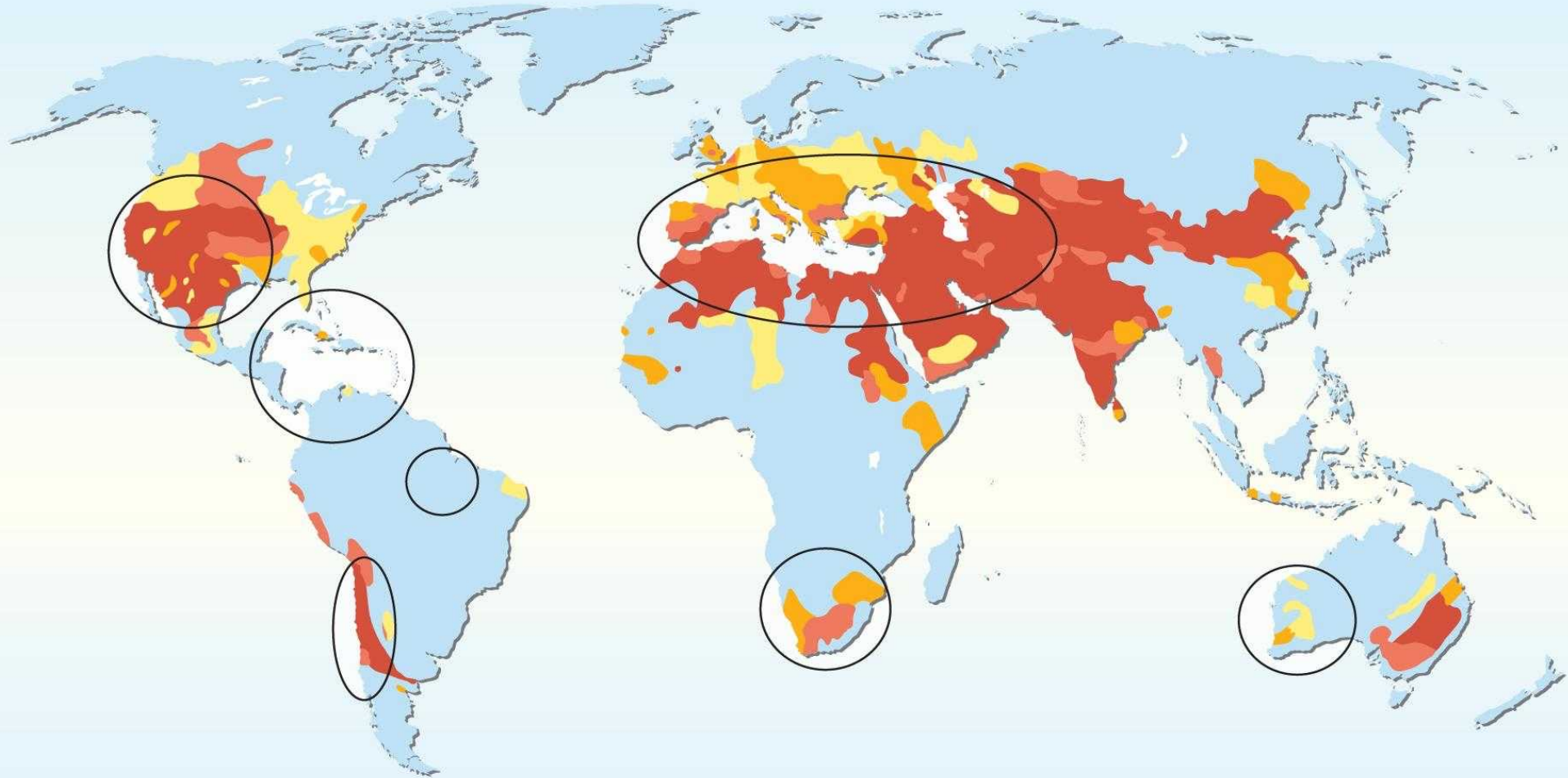
Minimum

United Arab Emirates	1
Qatar	1.1
Kuwait	2.1
Uganda	2.2
Angola	2.3

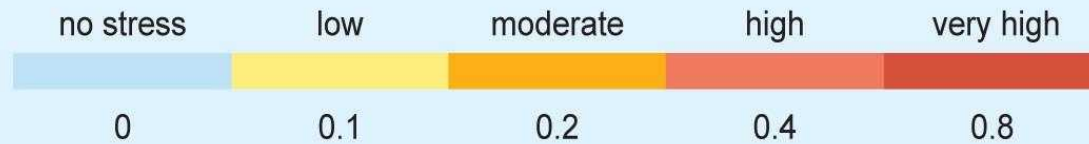
A photograph showing a young child standing on a vast, cracked, and parched landscape. The ground is covered in a dense network of deep, irregular cracks, indicating extreme dryness. The child is wearing a light-colored t-shirt and dark shorts. The background is a flat, sandy area under a bright sky. A dark, semi-transparent banner is overlaid at the bottom of the image, containing white text.

The change in climate in the Sahel region will lead to desertification and that will contribute to 'global warming'.

Water stress and climate change



Water stress: ratio between withdrawal and availability (in 2000)



○ Global regions where climate change is projected to decrease annual runoff and water availability

Source: IPCC, 2007.



GREAT GREEN WALL

<https://youtu.be/gECE2lr6W2Q>

Rotary
Dakar-Soleil



Rotary

Antwerpen-Metropool



Global Grant:

Rotary's Climate Forest

2.500.000 m² = 80.000 trees

and education for girls

Rotary's Climate Forest in the Great Green Wall

THE AMBITION

In order to

- Fight back against climate change and land degradation
- improve the living conditions of the local communities
- improve the local economy
- create educational opportunities for girls

We plan to

- to reforest 250 ha of desertified and degraded land
- in 3 years
- in arid and semi-arid regions

Funded by

- mixed funding by Rotary Clubs, Rotaract Clubs, Rotary Districts and Rotary International
- focus on return on investment effects by reinvesting 90% of the proceeds of the CO₂ Certificates.





Our reforestation techniques

- Reforestation in the Sahel is based on the creation of "half-moons" with the Vallerani system for rainwater harvesting.
- After a few years, the function of the half-moons (rainwater harvesting) is taken over by the vegetation and the improvement of the soil structure.
- The half-moons will be created mechanically with the Vallerani technique using a heavy plough (Delfino plough). This creates large channels across the slope.
- Each half-moon can collect about 1,200 litres of rainwater. Having about 250 half-moons per ha means a rainwater collection volume of 300 m³/ha.
- The half-moons are sown before the rainy season. Thanks to the rainwater collection, the seeds can germinate and the dry season can be filled until the next rain.



2010

Start of the
Reforestation
effort in Gorom
Gorom,
Burkina Faso



2012



2017

Result after 7
years in Gorom
Gorom,
Burkina Faso

15 LIFE ON LAND



13 CLIMATE ACTION



5 GENDER EQUALITY



4 QUALITY EDUCATION



17 PARTNERSHIPS FOR THE GOALS



1 NO POVERTY



2 ZERO HUNGER



8 DECENT WORK AND ECONOMIC GROWTH



PROVEN RESULTS AND ESE – IMPACTS:

<https://youtu.be/qQ93elpR6yc>

IMPACT 1

E COLOGIC

THE FORESTS TURN WASTED AND DEGRADED TERRAIN INTO FERTILE GROUND:

- Positive impact on biodiversity
- Positive impact on water access
- Landscape restoration
- **CO₂ capitation and storage** – 2.33 ton per ha
- Our forest participates in *The Great Green Wall*

IMPACT 2

S OCIAL

SOCIAL DEVELOPMENT
(Community Driven Development)

- Rise in schooling levels for both boys AND girls
- Gender equality
- Reverse migration (> 90% of the refugees originates from degraded land)

IMPACT 3

E CONOMIC

THROUGH A FOREST OF 250 HA ROTARY HAS A DIRECT IMPACT ON THE LIVELIHOOD OF THE COMMUNITIES

- Rise in house-hold income – the criteria for a micro-economy – by:
 - fatter cattle
 - marketing of agro-forestry products (gum)



Entrepreneurs without Frontiers (B)

Reforestation

Proven experience (SDG 15.2)

+/- 125.000 USD




Ecole Supérieure Polytechnique (SN)

Training and building capacity

Focus on empowering women and educating girls

+/- 35.000 USD

A background image showing a group of people in a rural setting. A woman in the foreground is carrying a young child on her back. They are wearing colorful, patterned clothing. The scene is outdoors with trees and a dirt path.

Minimum Budget:
2.500.000 m² = 160.000 USD

Together we have more impact:

- ✓ 47 Rotary Clubs and Rotaract Clubs from Europe, the United States, Canada, and Africa
- ✓ 16 districts
- Who will join us?

1.000 USD = 15.000 m² additional forest



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TRANSFORM

Rotary



PEOPLE OF ACTION