

A photograph of a large tree trunk with thick, gnarled roots extending into the ground. The background is a soft-focus green forest. The text is overlaid on the image.

Tree for Peace

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Looking Beyond Disaster 5 Action Plan

Yogyakarta, Indonesia

Background

- After each volcanic eruption, a lot of trees at Mount Merapi were burned down to ashes
- Trees supply oxygen for humans and animals
 - How Much Oxygen Does One Tree Produce?



"A single mature tree can absorb carbon dioxide at a rate of 48 lbs/year and release enough oxygen back into the atmosphere to support 2 human beings."

- *McAliney, Mike*

Objectives

- To avoid the landslide
- To increase the water and oxygen supplies
- To support the economic growth



'The Plan'

- Cooperate with the Ministry of Forestry to supply us with tree saplings and sponsors
- Discuss with local people to decide suitable and valuable trees for the community
- Form gradual monitoring mechanisms
- Work together with the people around Merapi to plant the saplings
- Create a “story” to form a **community activity center** at the planting areas particularly – then involve the community and engage students and people to conduct activities around the area.
- Form the small group to maintain the trees
- Plant the trees around Merapi Mt.
- Follow up the tree planting
- Once the trees have grown, they will be beneficial as the source of income for the benefited society around Mount Merapi.

Timeline

Oct 14

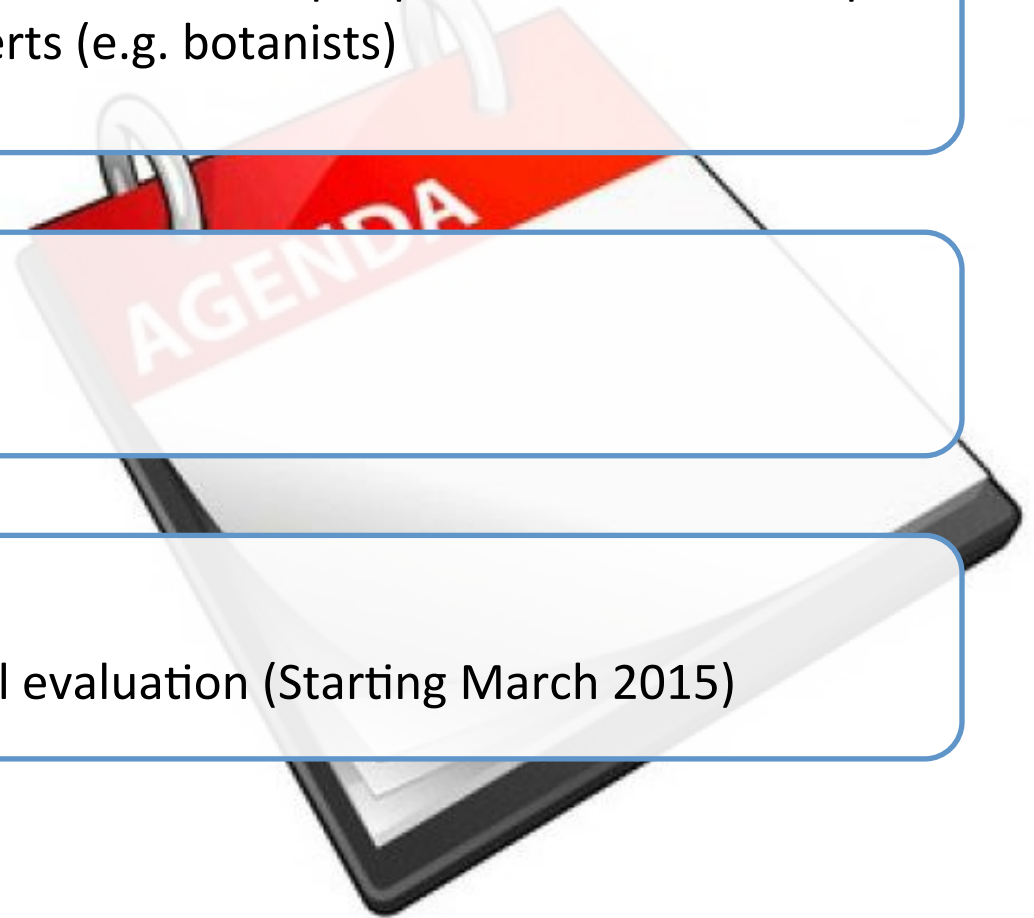
- Meeting with the government and people around Mt. Merapi
- Consulting with experts (e.g. botanists)
- Publication

Oct 14 – Mar 15

- Saplings growing
- Publication

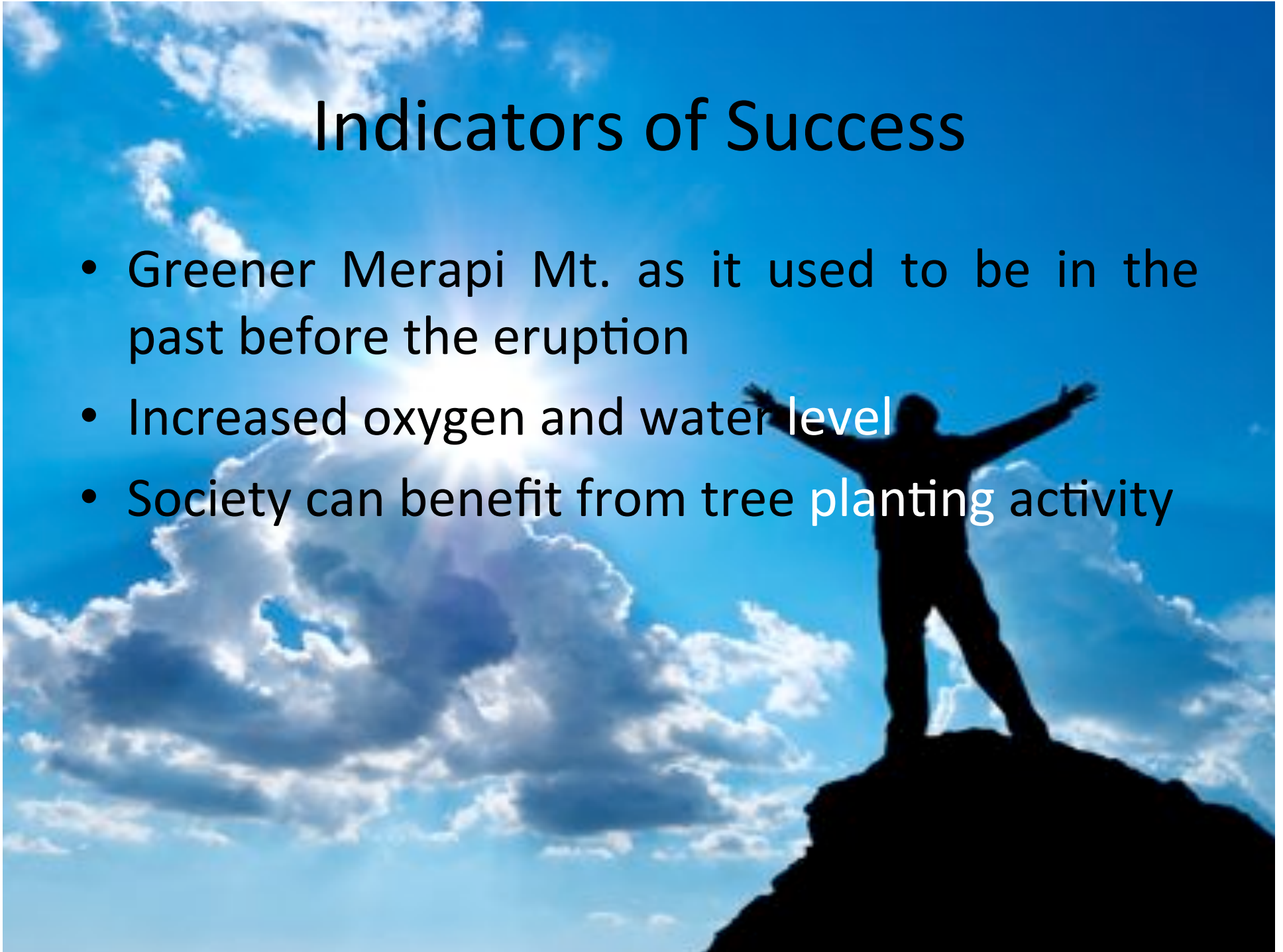
Mar 15

- Trees planting
- Quarter-year gradual evaluation (Starting March 2015)



Indicators of Success

- Greener Merapi Mt. as it used to be in the past before the eruption
- Increased oxygen and water level
- Society can benefit from tree planting activity



Potential Challenges

- Another damaging eruption
- Getting the saplings from the Ministry of Forestry and other sponsorship forms
- Some seeds cannot grow
- More Mount Merapi eruptions
- Gather people around Mount Merapi to join to plant the trees
- Takes a long time to growth the trees
- Monitor control mechanisms

Cost Estimation (USD)

PLAN A (Sponsored tree saplings)

- Saplings : Sponsored/Supported
- Tools : Sponsored/Supported

PLAN B (Private Fundraising)

- Seeds : $\$0.1 \times 1000 = \100^*
- Polybags : $\$0.2 \times 1000 = \200
- Tools : \$100

Total : \$300

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