Public – Private Framework for Reforestation in Afghanistan
Why Plant Trees?

What are some reasons for why people will plant trees?

- Fruits
- Nuts
- Construction poles and wood
- Windbreaks
- Beautification
- Stopping soil erosion
- Fodder
- Picnic areas and shade
- Stabilizing hillsides
- Preventing landslides and avalanches
- Improving soil fertility
- Medicines
- Fuelwood
- Wildlife
Incentives

- Direct Payments of cash or food
- It is part of their regular job
- Gifts of planting stock
- Half price planting stock
- Intercropping plants
- Training
- Owning the tree and its products
- Civic pride
- To please someone in a high position of respect or authority who asked them to plant
- Improvements of their land and environment

The benefits of these incentives are immediate.
The incentive of pay or a job
The incentive of a gift of goods or service
The incentive is from within the person
The real benefits of these incentives may come over time.
Where to Plant Trees, and Who will Plant and Maintain them?

- Home compounds
- Around the community
- Important public places
Barren hillsides and marginal lands

Severely degraded woodlands and forests

Less degraded woodlands

Riparian areas (sides of streams and rivers)

Local agricultural lands
There are different groups of people who may want to plant and maintain trees:

- School students
- Communities
- Governmental and non-governmental organizations
- Women and families
- Local farmers
- Paid workers
<table>
<thead>
<tr>
<th>Where</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home compounds</td>
<td>Women, children, and other family members</td>
</tr>
<tr>
<td>Private lands</td>
<td>Local farmers, women</td>
</tr>
<tr>
<td>Agricultural lands</td>
<td>Local farmers, women</td>
</tr>
<tr>
<td>Mosques</td>
<td>Local people and students</td>
</tr>
<tr>
<td>Shrines</td>
<td>Local people</td>
</tr>
<tr>
<td>Sports fields</td>
<td>Local people</td>
</tr>
</tbody>
</table>

Local people planting at local places they use

<table>
<thead>
<tr>
<th>Where</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hillsides</td>
<td>Communities, NGOs, Government</td>
</tr>
<tr>
<td>Riparian areas (sides of rivers)</td>
<td>Communities, NGOs, Government</td>
</tr>
<tr>
<td>Marginal lands</td>
<td>Communities, NGOs, Government</td>
</tr>
<tr>
<td>Deforested areas</td>
<td>Communities, NGOs, Government</td>
</tr>
<tr>
<td>Desertified areas</td>
<td>Communities, NGOs, Government</td>
</tr>
<tr>
<td>Where</td>
<td>Who</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Roads</td>
<td>Local people, communities, NGOs, businesses, and Government</td>
</tr>
<tr>
<td>Public green areas and picnic areas</td>
<td>Local people, businesses, communities, NGOs, and Government</td>
</tr>
<tr>
<td>Clinics and hospitals</td>
<td>Communities, NGOs, Government</td>
</tr>
<tr>
<td>Schools and universities</td>
<td>Students, local people, NGOs, Government</td>
</tr>
<tr>
<td>Factories and businesses</td>
<td>Owners, local workers</td>
</tr>
<tr>
<td>Army bases and airports</td>
<td>Army staff or troops</td>
</tr>
<tr>
<td>Other buildings</td>
<td>related office staff</td>
</tr>
</tbody>
</table>

Public buildings and lands, as well as private businesses are good places to begin public-private collaboration.
Local people with trained supervision can be effective paid workers at many different places needing reforestation.

Girls planting trees at their school – they supplied the “where” and the “who” while someone else provided the “what” – the planting material.
What to Plant?

The planting material can be:

- **Seeds**
- **Seedlings**
- **Saplings**
- **Cuttings**

Seeds are used to grow seedlings in nurseries, and may also be used in direct seeding at planting sites.

Nursery staff with cuttings they are preparing for use in planting.

Nursery manager growing trees to be planted as bareroot seedlings.

Seedlings may also be produced in containers such as polybags.

Saplings are used when a more mature plant is needed.
“**What**” you plant is very strongly related to “why” you plant.

“**What**” you plant is strongly related to “where” you plant.
“**What**” you plant is very strongly related to “**why**” you plant.

“**What**” you plant is strongly related to “**where**” you plant.

Sources of planting material

**Public sources** –
- Government nurseries (Ministry of Agriculture, Irrigation, and Livestock)

**Private sources** –
- Individuals and businesses
- Families
- Communities
- NGOs

Nurseries should plan to grow trees with the “**what**” the “**why**” and the “**where**” to plant already known.
Community - based forest management brings the “why” the “where” the “who” and the “what to plant” all together

Example: Community – based natural pistachio forest management in Samangan

Community – established forest management committees to protect their pistachio forest, limit grazing, manage harvest of nuts, and plant and maintain new pistachio trees. Afghan Conservation Corps and Ministry of Agriculture, Irrigation, and Livestock provide assistance.

Communities realized a 65% increase in income after first year of management.
Planning for Reforestation

When planning for reforestation check on the availability of these main resources you will want or need:

• People
  - Public (government agencies or organizations)
  - Private (communities, local organizations, NGOs)

• Places
  - Public
  - Private

• Planting material
  - Public sources
  - Private sources

• Payment
  - for People
  - for Planting material
  - for Transport

Also needed is
• Knowledge
  - of species
  - of planting material
  - of how to organize and supervise people for effective tree planting and maintenance
Phases of Reforestation

**Preparation**
- Selection of species and planting material
- Training of planting crews
- Organizing and scheduling of what will happen where and when
- Preparation of planting site as needed
- Have materials to keep roots of seedlings and saplings moist
- Have water and tools ready for planting

**Planting**
- Lifting or collecting of planting material
- Transport (of planting material, and if necessary people)
- Planting and watering
- Monitoring to ensure that trees are being planted correctly

**Maintenance**
- Watering
- Protection
- Monitoring to check on survival; may have to replace some plantings
<table>
<thead>
<tr>
<th>Where:</th>
<th>Partner:_________</th>
<th>Partner:_________</th>
<th>Partner:_________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private or Public site</td>
<td></td>
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</tbody>
</table>

| Who: | | | |
|------| | | |
| Private or Public | | | |

| What: | | | |
|-------| | | |
| Private or Public sources | | | |

| Why: | | | |
|------| | | |
| Purpose | | | |

| Incentives | | | |
|------------| | | |
Steps to Selecting Incentives

1. Determine **where** you want to plant trees and **who** is available to plant them.

2. Identify which incentives may be most useful for the groups of people in the places you want to plant trees.

3. Determine **why** you want trees planted in this place? Most importantly, determine why people in that place might want to plant trees.

4. Once you have determined why you and the people want trees in this place, determine **what** kinds of trees you will need for this purpose.

5. Select the incentives. Check with **who** you will have doing the planting to make sure that your incentives will motivate them to plant and maintain the trees.
Where to Plant Trees, and Who will Plant and Maintain them?

Steps to Selecting Where to Plant and Who will Plant

1. Determine where you would like to have trees planted, and for what purposes.

2. Determine if the places you want to plant trees will accomplish what you want.

3. Identify who will be potential planters of these trees.

4. Determine why these people would want to plant and maintain trees.

5. Determine if where you want to plant trees is also a place where they can be maintained (watered and weeded)?

6. Determine if the people who will plant the trees are also the people who will maintain them, or will they be a different group of people?
What to Plant?

Steps for Selecting What to Plant?

1. First, survey what is available.

2. Determine why you want to plant trees and where you want to plant them.

3. Determine who will be planting the trees.

4. Make sure that if the people who will plant the trees have to protect and maintain them that they support what has been selected.

5. Select the type of planting material based on the site, the logistics of planting, protection of the plants, and other needs.

6. Plan ahead – work with nurseries to have them grow their trees based on where you want to plant them and on why you want them. When a tree is grown in a nursery, it should be with a purpose and place in mind.

7. Work with private nurseries so that they can provide some of the planting material to meet public needs.
Create opportunities – meet with potential partners in reforestation, bringing whatever resources you have -- you alone do not need to have them all.