Angereb Watershed Game
for collaborative modelling

Eskedar Gebremedhin
Andrew Warren

August 2017

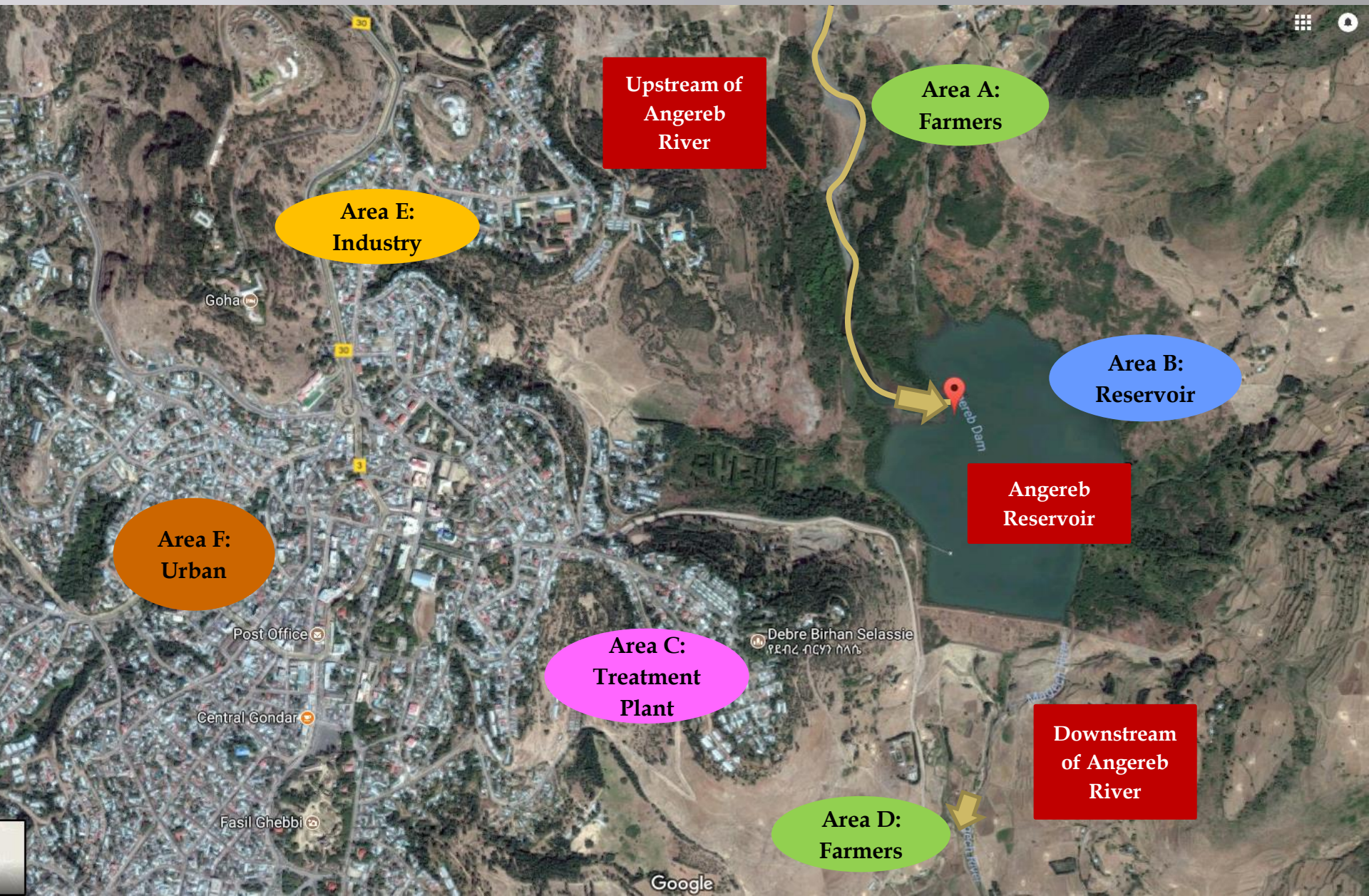Global Water Partnership
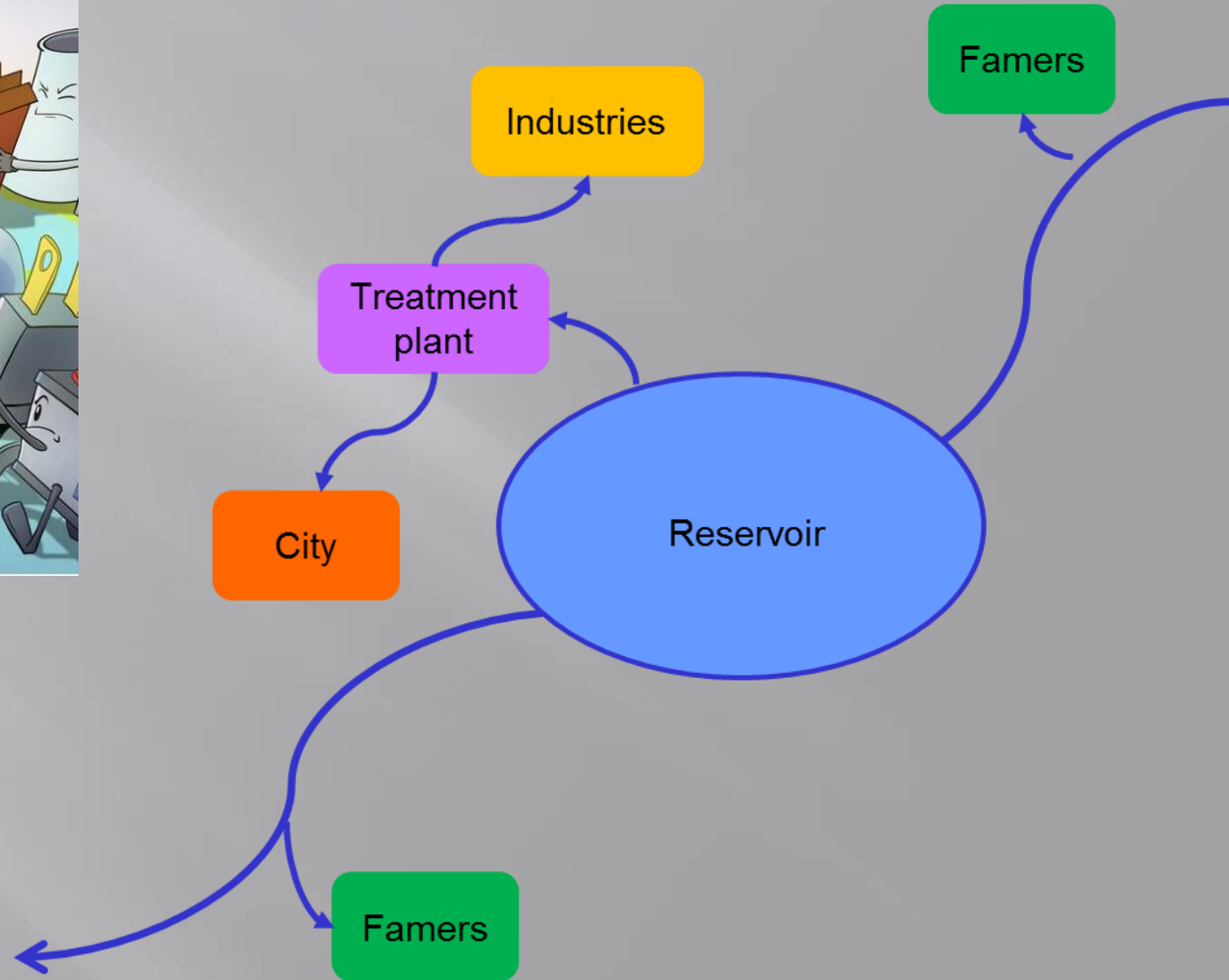
Deltares
Enabling Delta Life

With the support:

IWR

WORLD BANK GROUP

UNESCO | IHE DELFT

Angereb River Watershed

System Model: Water balance model

Industries

Treatment plant

City

Reservoir

Famers

Famers

Game Objectives

I. Improve the existing situation

II. Find the best strategy that reduces total negative impacts in the model:

 Pollution

 Sediment inflows

 Water treatment costs

 Industrial demand deficit

 Domestic water demand deficit

 Irrigation water demand deficit

Instructions

1. Assess the challenges for the case study area
2. Select best impact reduction strategies thru collaborative work
   - ❖ maximum 3 measures

3. Simulate actions in the model and review results

Measure 11:
- ❖ Can be combined with measures 2, 5, 8 and 10
- ❖ Reduces impacts by an additional 5%