

Potential Afforestation Areas in the Getik River Basin

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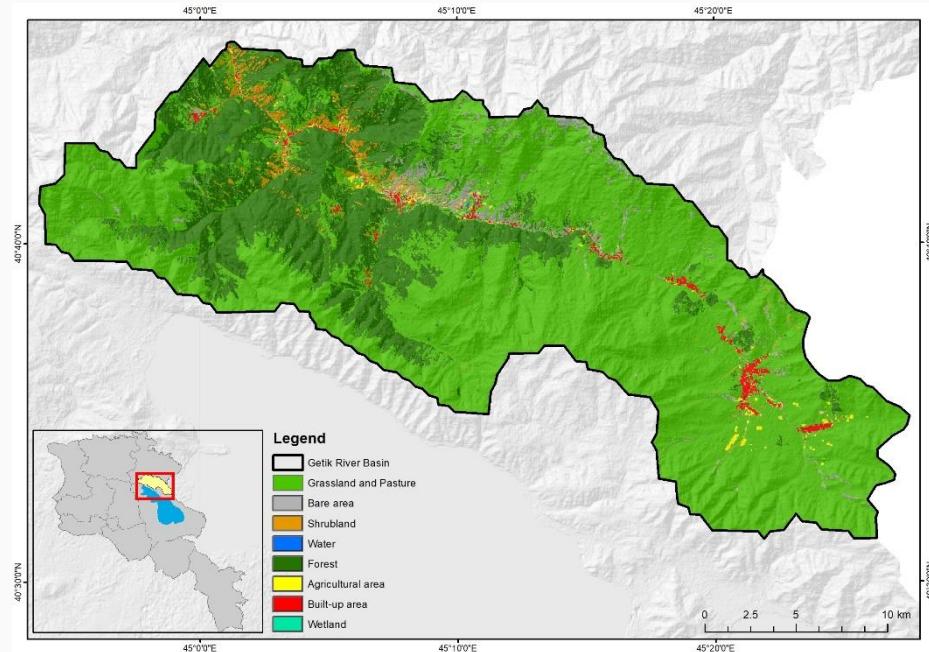
Agenda

1. Context & Objective
2. Methodology
3. Results
4. Challenges
5. Questions & Discussion



Context: The Getik River Basin

- Gegharkunik and Tavush marzes
- Forest cover = 14,667 ha
- Favorable tree growth conditions

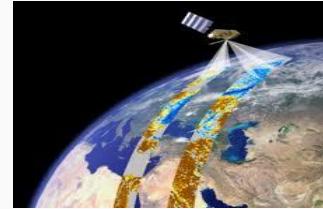


Objective

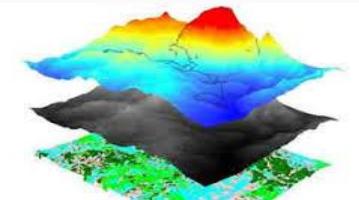
Identify how much and where
to increase forest cover



Remote Sensing

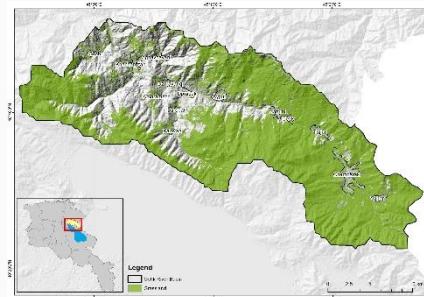


GIS

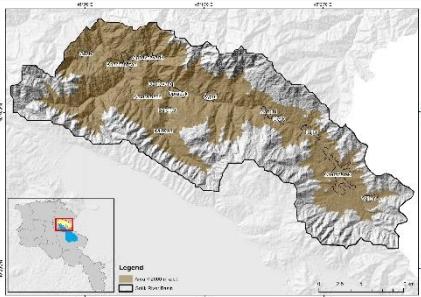


Methodology: Physical Limitations

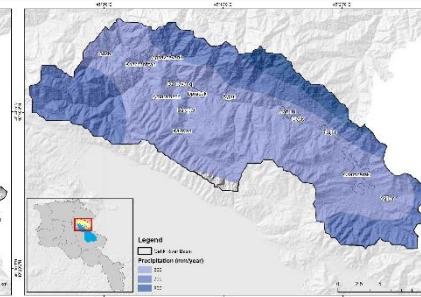
Land Use
Grassland



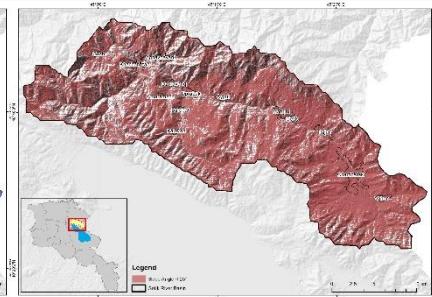
Elevation
 $< 2000 \text{ m a.s.l.}$



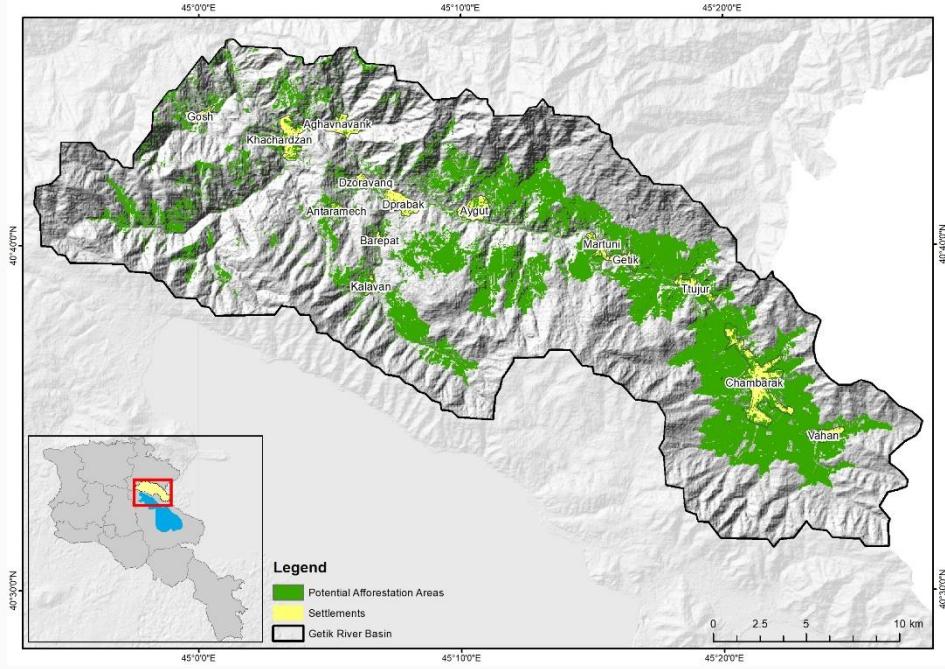
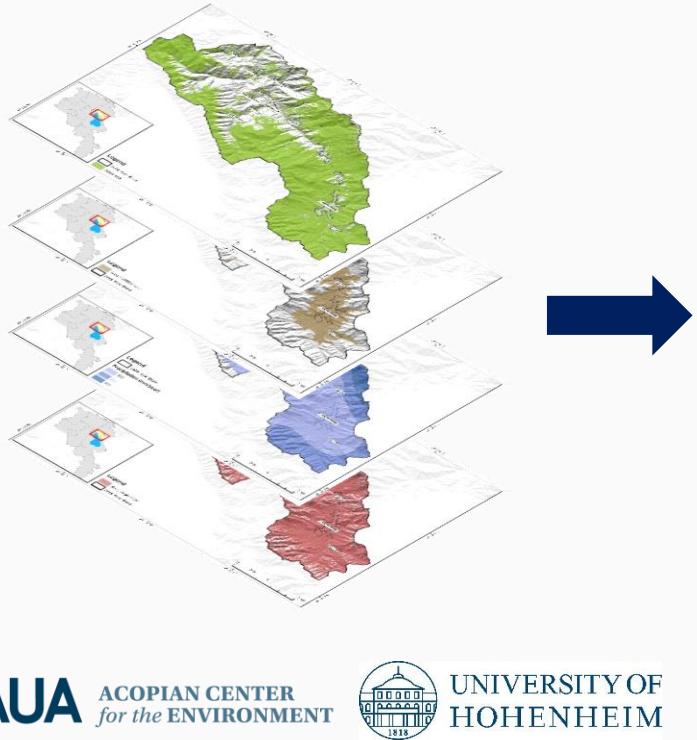
Precipitation
 $> 600 \text{ mm/yr}$



Slope Angle
 $< 25^\circ$

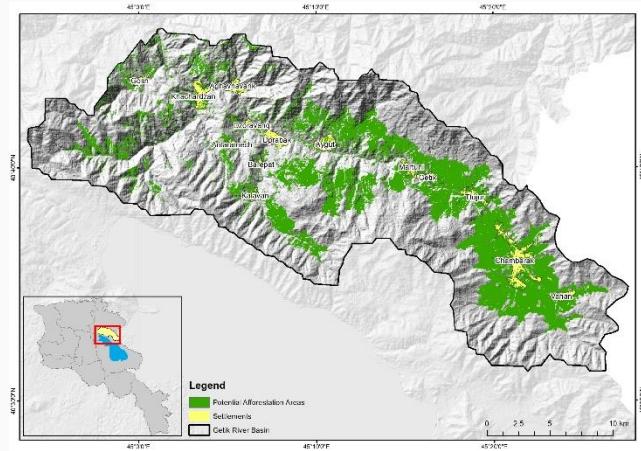


Methodology: Physical Limitations

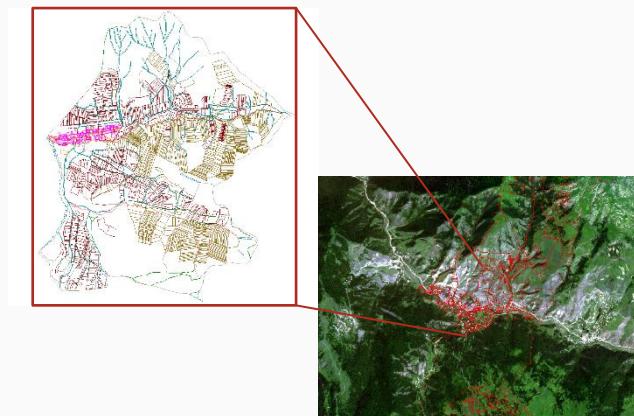


Methodology: Ownership Limitations

Physically Possible
Afforestation Area

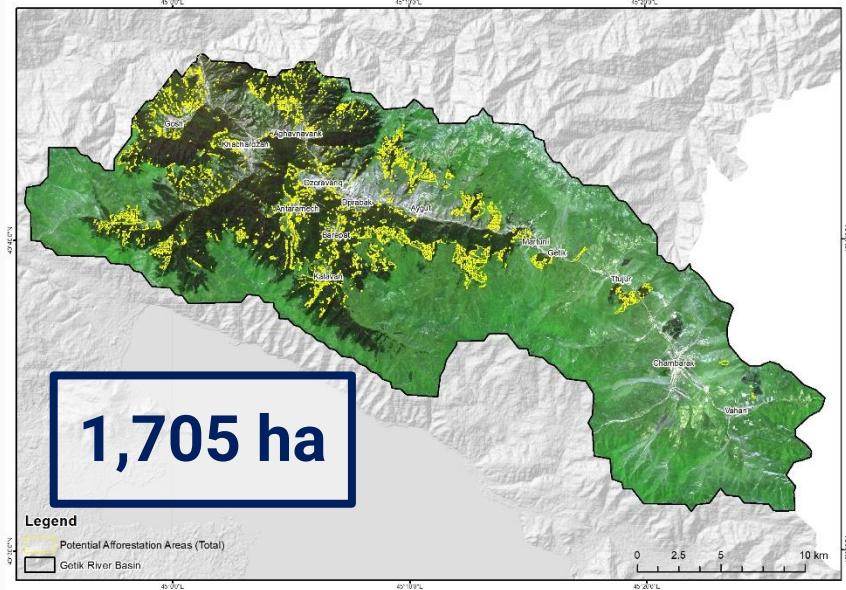


Public Ownership
Forest Land ≠ Forest Cover

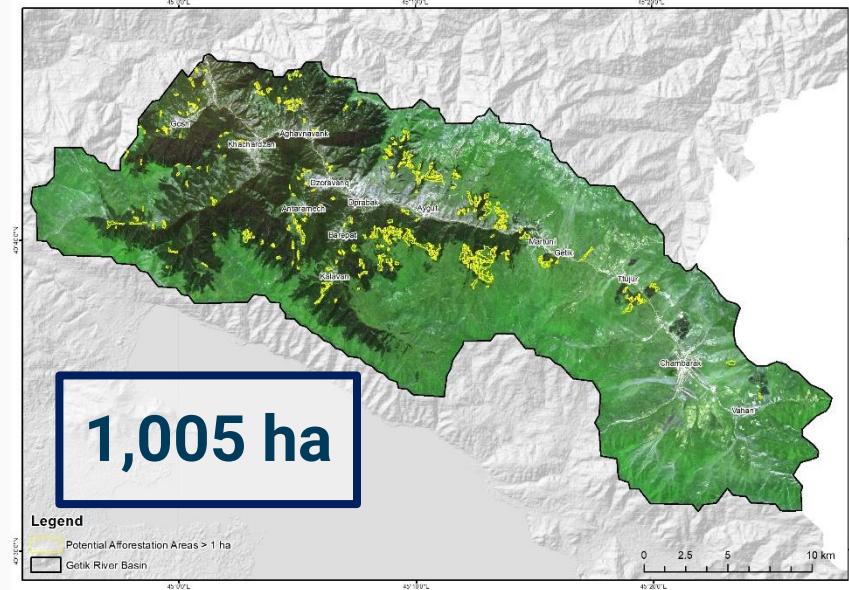


Results

Potential Afforestation Area (Total)

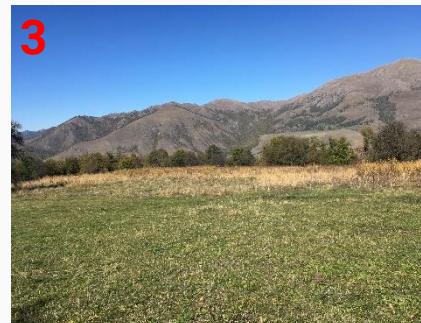
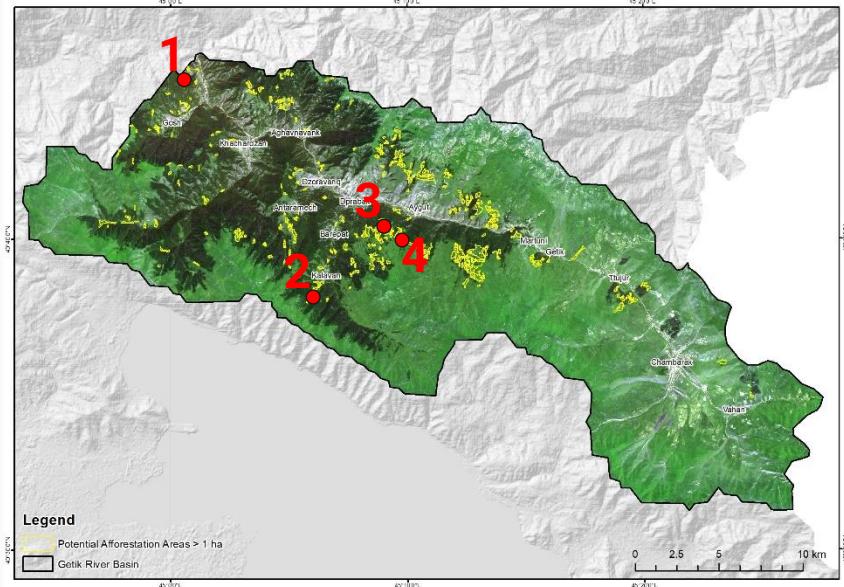


Potential Afforestation Area (> 1 ha)



Results

Potential Afforestation Area (> 1 ha)



Results

Potential forest cover increase = 11.6 % of current forest cover
of Getik River Basin (14,667 ha + 1,705 ha)

Conservative approach = highly appropriate conditions
for tree growth

Increased probability of tree survival

Challenges

Illegal Logging



Uncontrolled Livestock Grazing



Tree Pests



Questions and Discussion

- What are the next steps towards the implementation of an actual afforestation project?
Որո՞նք են անտառապատման ծրագրի իրականացման հաջորդ քայլերը:
- How can the survival rate of trees be further increased?
Ինչպե՞ս կարելի է ծառերի զոյատևման հավանականությունը բարձրացնել:
- How can livestock be kept away?
Ինչպե՞ս կարելի է խուսափել անասունների ազդեցությունից:
- What criteria are missing as further limitations?
Ո՞ր չափանիշներն են պակասում, որպես հետազոտ սահմանափակումներ

