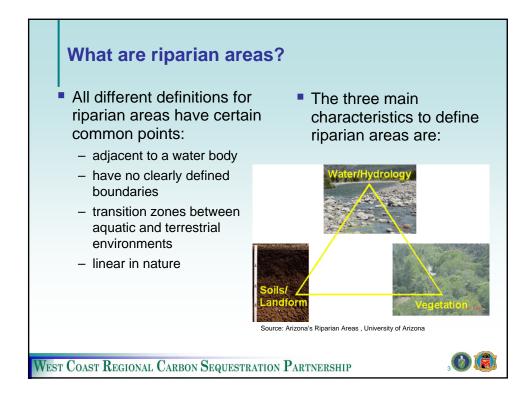


## **Summary**

- What are riparian areas?
- Why trees in riparian areas are important?
- Arizona's riparian areas
- Regional characterization analysis (preliminary results)

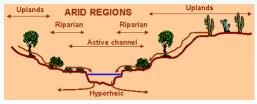
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## Why trees in riparian areas are important?

- A riparian forest is the forested area of land adjacent to a body of water, stream, river, bay or marsh.
- Functions of riparian forest
  - Carbon storage
  - Sediment filtering
  - Flood control
  - Nutrient and pollutant control and water quality management
  - Shade and water temperature
  - Stream channel stability
  - Habitat and food



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## AZ riparian areas Awareness of the importance of riparian areas University of Arizona – (Arizona's Riparian Areas learning module) Arizona Riparian Council Restoration projects Lower Colorado River multi-species conservation plan (funded by the Bureau of Reclamation) Fossil Creek watershed and riparian restoration

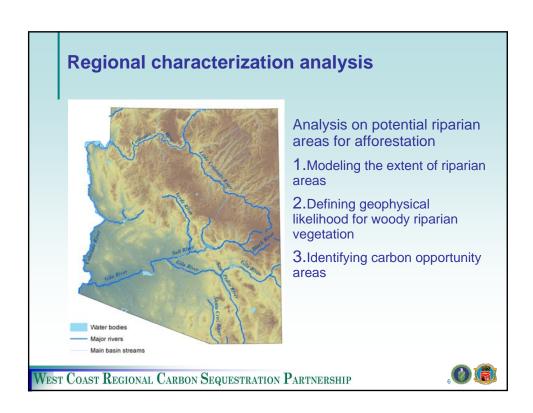
Source: Arizona's Riparian Areas , University of Arizona

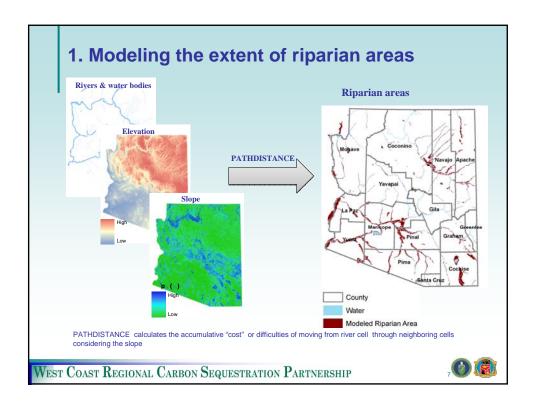
Red Rock Creek near Patagonia, AZ

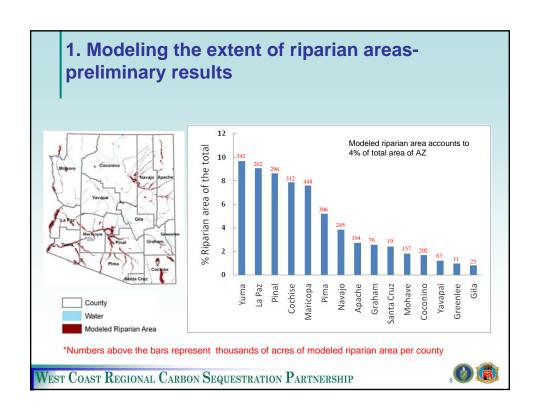
Riparian restoration efforts in the Santa

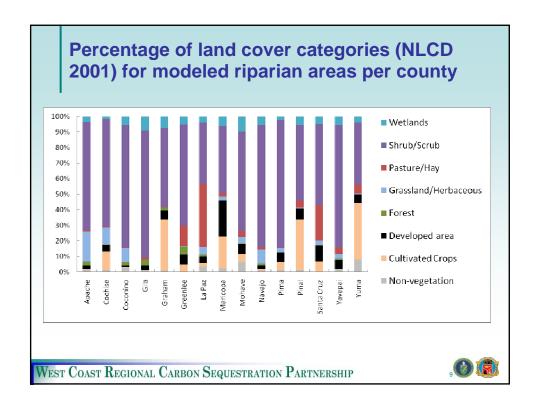
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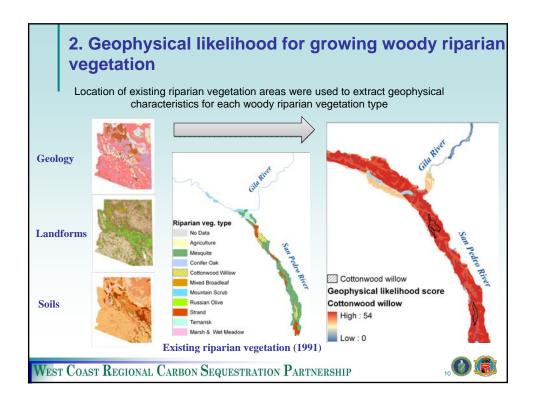
Cruz River basin

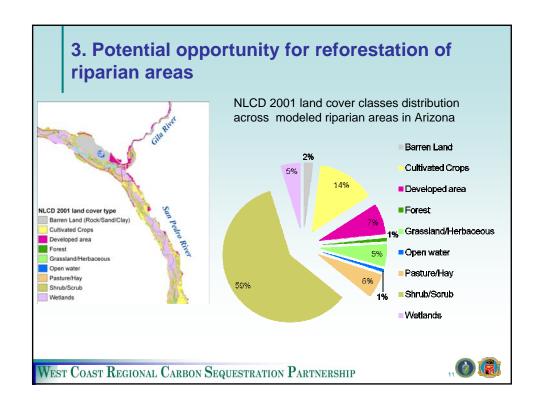


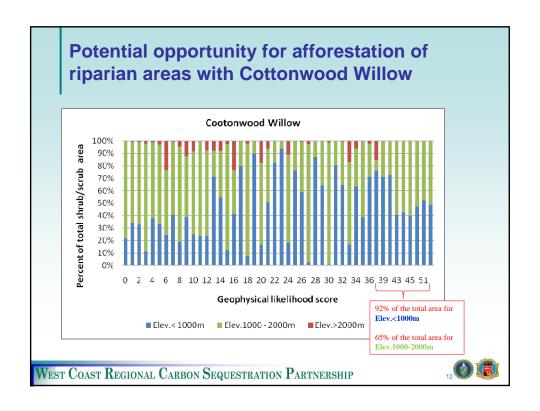


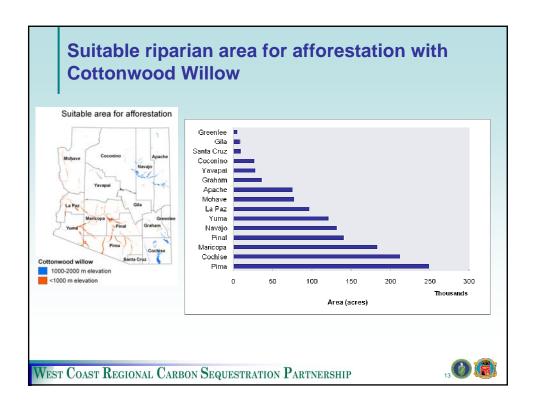












## Next steps of the analysis

- To identify suitable riparian area for afforestation with remaining woody riparian types (mesquite, conifer oak, mixed broadleaf, etc)
- To estimate the potential accumulated carbon for 20 years for each woody riparian type
- To examine the link between identified riparian areas afforestation and Arizona Statewide Freshwater Assessment by the Nature Conservancy

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