

Poudre River Restoration – River Bluffs Open Space

Open Lands Advisory Board

July 28, 2016



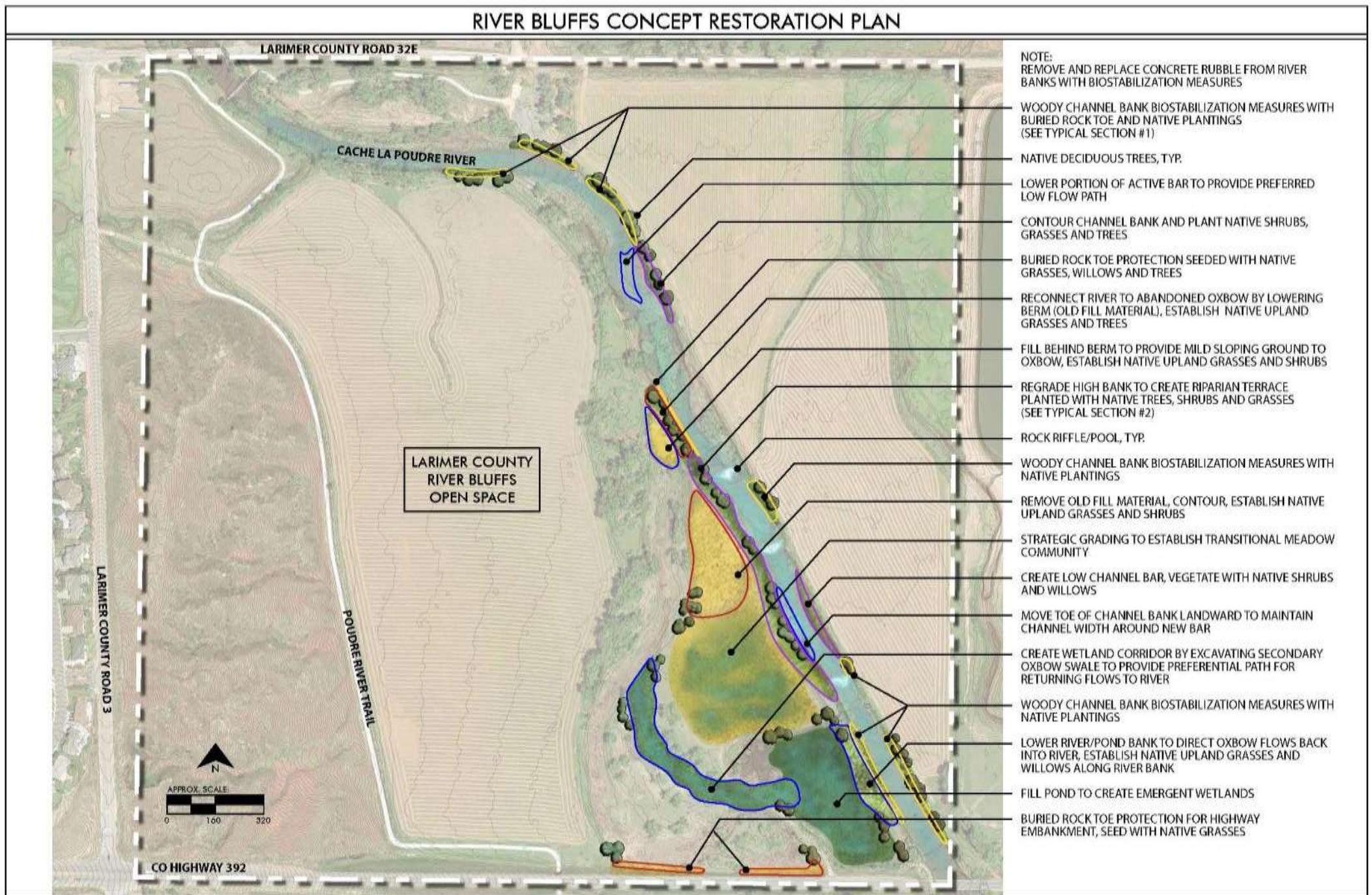
Background

- River Bluffs Open Space
 - 2005 acquisition
 - RBOS Management Plan
 - 2010
 - DOLA planning grant
 - 2015 (underway)
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Actively Eroding Channel Banks and Existing
Concrete Rubble Bank Treatment

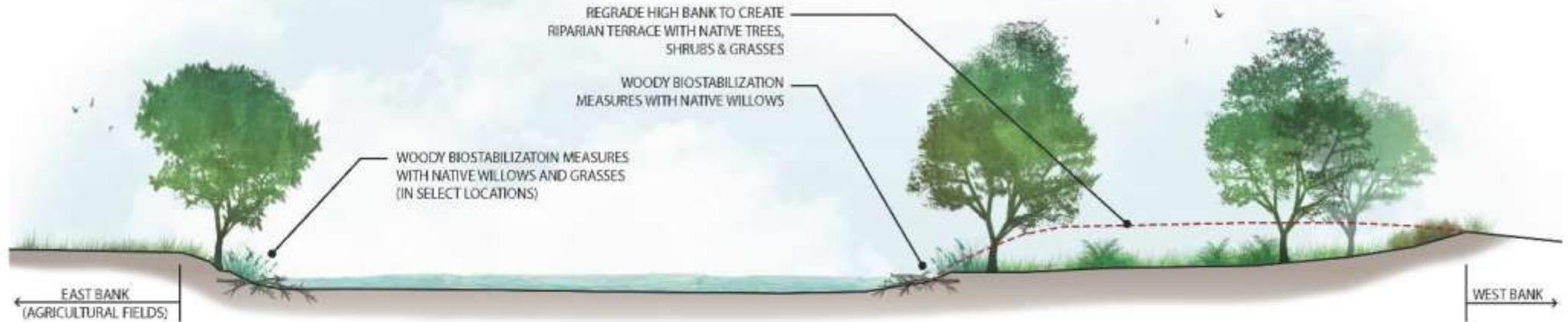
RIVER BLUFFS CONCEPT RESTORATION PLAN



- NOTE:
REMOVE AND REPLACE CONCRETE RUBBLE FROM RIVER BANKS WITH BIOSTABILIZATION MEASURES
- WOODY CHANNEL BANK BIOSTABILIZATION MEASURES WITH BURIED ROCK TOE AND NATIVE PLANTINGS (SEE TYPICAL SECTION #1)
 - NATIVE DECIDUOUS TREES, TYP.
 - LOWER PORTION OF ACTIVE BAR TO PROVIDE PREFERRED LOW FLOW PATH
 - CONTOUR CHANNEL BANK AND PLANT NATIVE SHRUBS, GRASSES AND TREES
 - BURIED ROCK TOE PROTECTION SEEDED WITH NATIVE GRASSES, WILLOWS AND TREES
 - RECONNECT RIVER TO ABANDONED OXBOW BY LOWERING BERM (OLD FILL MATERIAL), ESTABLISH NATIVE UPLAND GRASSES AND TREES
 - FILL BEHIND BERM TO PROVIDE MILD SLOPING GROUND TO OXBOW, ESTABLISH NATIVE UPLAND GRASSES AND SHRUBS
 - REGRADE HIGH BANK TO CREATE RIPARIAN TERRACE PLANTED WITH NATIVE TREES, SHRUBS AND GRASSES (SEE TYPICAL SECTION #2)
 - ROCK RIFFLE/POOL, TYP.
 - WOODY CHANNEL BANK BIOSTABILIZATION MEASURES WITH NATIVE PLANTINGS
 - REMOVE OLD FILL MATERIAL, CONTOUR, ESTABLISH NATIVE UPLAND GRASSES AND SHRUBS
 - STRATEGIC GRADING TO ESTABLISH TRANSITIONAL MEADOW COMMUNITY
 - CREATE LOW CHANNEL BAR, VEGETATE WITH NATIVE SHRUBS AND WILLOWS
 - MOVE TOE OF CHANNEL BANK LANDWARD TO MAINTAIN CHANNEL WIDTH AROUND NEW BAR
 - CREATE WETLAND CORRIDOR BY EXCAVATING SECONDARY OXBOW SWALE TO PROVIDE PREFERENTIAL PATH FOR RETURNING FLOWS TO RIVER
 - WOODY CHANNEL BANK BIOSTABILIZATION MEASURES WITH NATIVE PLANTINGS
 - LOWER RIVER/POND BANK TO DIRECT OXBOW FLOWS BACK INTO RIVER, ESTABLISH NATIVE UPLAND GRASSES AND WILLOWS ALONG RIVER BANK
 - FILL POND TO CREATE EMERGENT WETLANDS
 - BURIED ROCK TOE PROTECTION FOR HIGHWAY EMBANKMENT, SEED WITH NATIVE GRASSES



RIVER BLUFFS CONCEPT RIVER CROSS SECTIONS



TYPICAL SECTION 1 - LOOKING DOWNSTREAM



TYPICAL SECTION 2 - LOOKING DOWNSTREAM



Budget

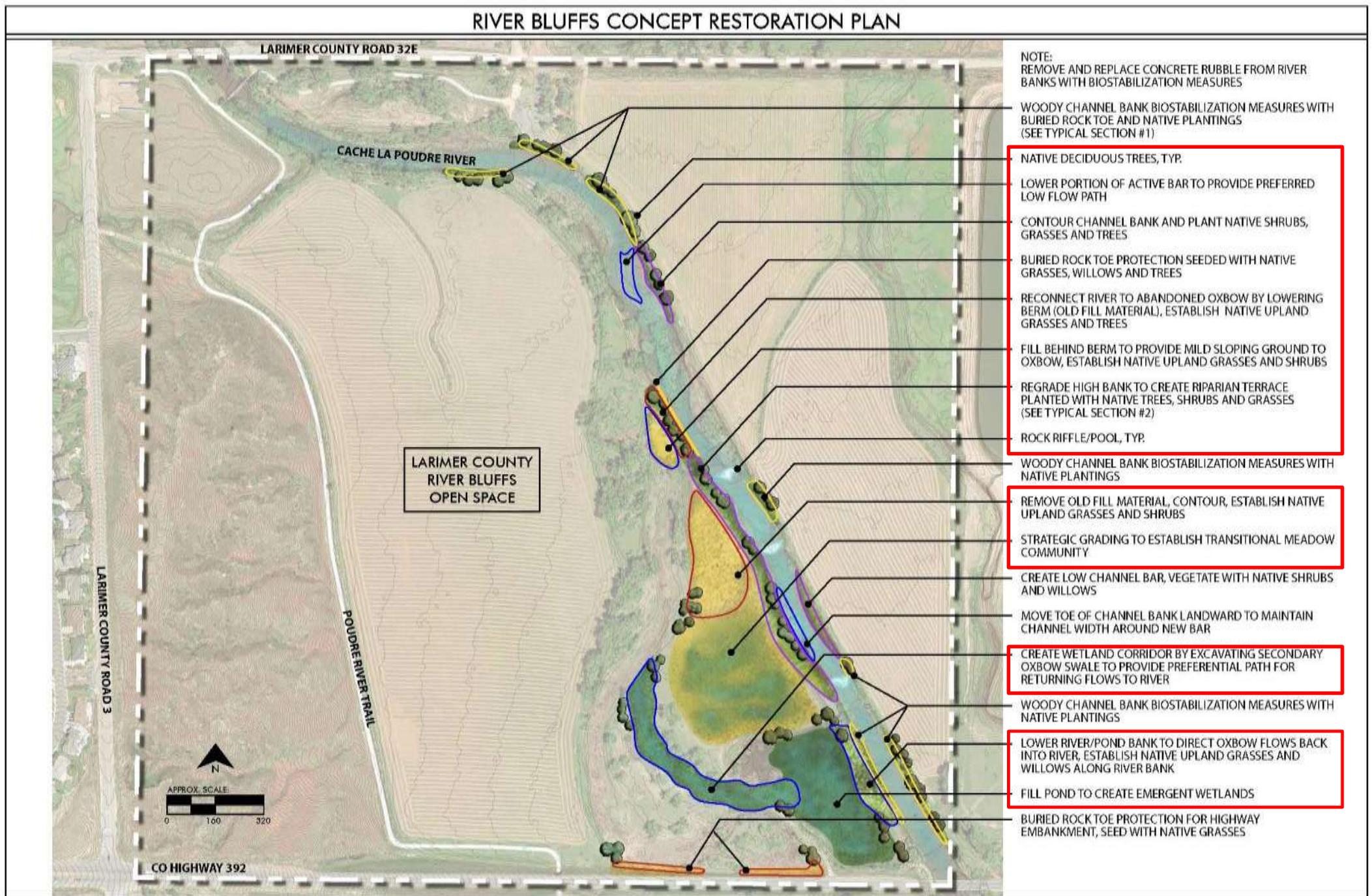
- Total Project Cost
 - \$ 2.1 million
- Phase 1 cost
 - \$ 864,804



Implementation

- CPW Wetlands for Wildlife grant
 - \$ 432,367
 - Submitted – June 2016
 - GOCO Habitat Restoration grant
 - Fall 2016
 - Pursue other funding sources.....
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Questions ?