



Marin Biomass Project

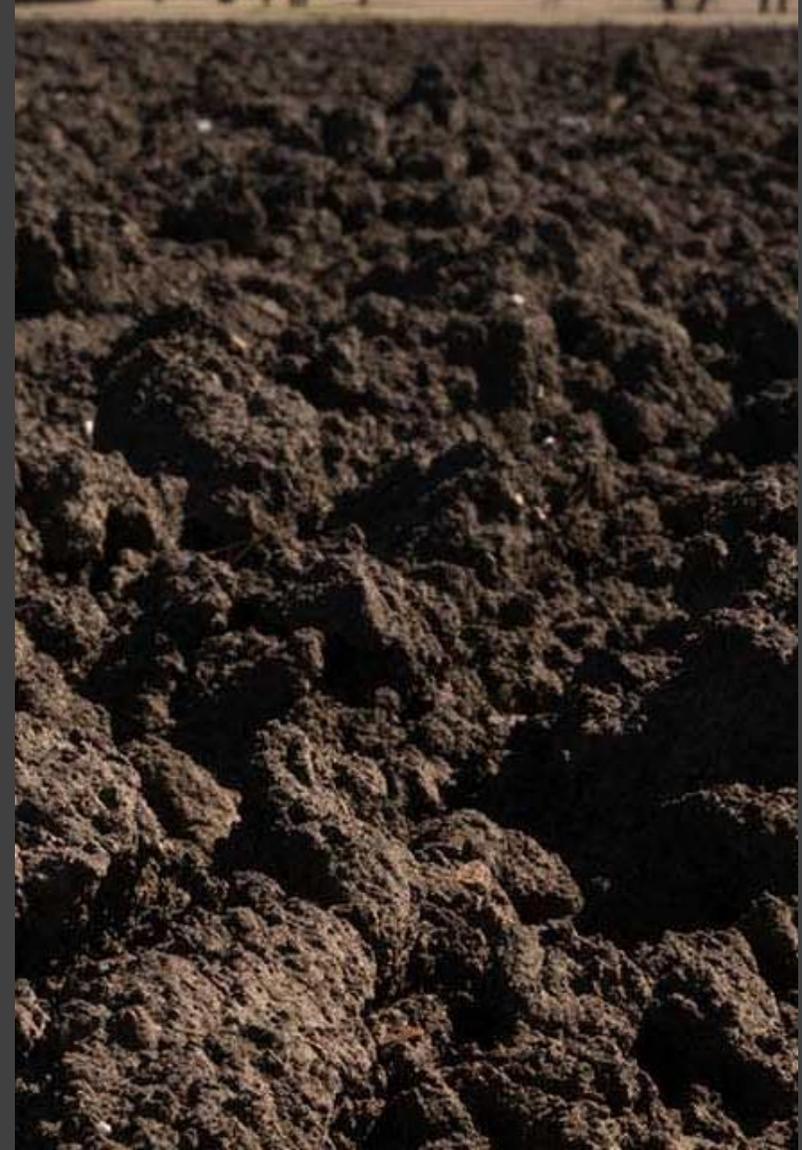
Wildfire Risk



GHG Emissions



Carbon in Soils





- Facilities / supply chains?
- How (much) to pay?
- Options and optima?



- Ability to match flows and options
- New institutional support(s)
- Carbon impacts of products

AB 144



Marin Measure C

Bill called for forest fuel oversupply reduction also aims to support wood product manufacturing, with an aim to facilitate economic development for disadvantaged communities with resource-based economies in the forested foothills and mountains of California.
(2020) [weblink here](#)

Approved a tax to all parcels of real property in Marin County to reduce fire risk and to establish an authority to do so. This has established a new Joint Powers Authority – the Marin Wildfire Prevention Authority – which is now working to establish and implement fire risk reduction plan. As part of this plan, MWPA agreed to consider ecologically sound practices for managing biomass on forested lands, on woodlands, and at the woodland-urban interface (WUI).
(2020) [weblink here](#)

**Is there synergy in
this mix?**

Can wildfire risk reduction intersect, interact, and potentially synergize with other bioresource management efforts, such as the organics diversion under SB 1383?

**Are GHG reductions
integrated?**

Beyond diverting waste from landfill, can recovery efforts support GHG emissions reductions?



Marin Biomass Project

1

Biomass Utilization Study

2

Stakeholder Collaborative

Study ABCs

Marin
Biomass
Project

Part A. Biomass Feedstock Confirmation	Q4	2022
Part B. Utilization Pathways Assessment	Q1	
Part C. Economic Analysis	Q3	2023
Part D. Greenhouse Gas Analysis	Q2	
Part E. Recommendations	Q4	
Part F. Final Study	Q1	
Part G. Outreach	Q2	2024

Part A

Marin
Biomass
Project

Biomass Feedstock Confirmation



SB 1383
(2016)



yard



urban

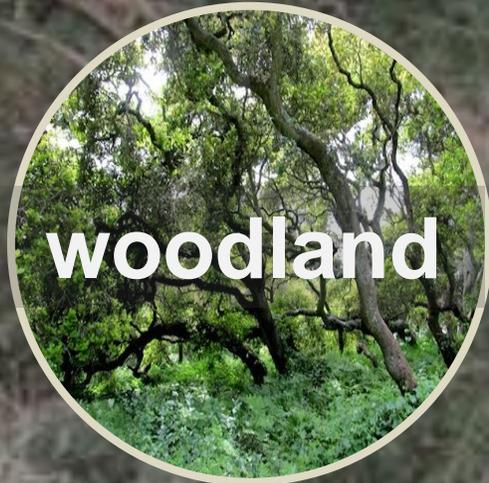


food
scraps



Measure C

(2020)





Carbon Farming



agricultural

Part B

Marin
Biomass
Project

Utilization Pathways Assessment

feedstocks



urban



food



agricultural



WUI



yard



forest



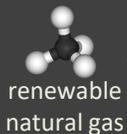
on-site treatment

wood products
manufacturing



wood products

wet anaerobic
digestion

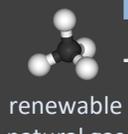


digestate



electricity

dry anaerobic
digestion



digestate



electricity



biochar



electricity

gasification

composting



compost



mulch

mulching



steam

waste-to-energy

combustion



electricity

Part C

Economic
Analysis

+

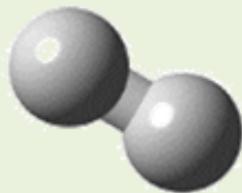
Part D

GHG
Analysis

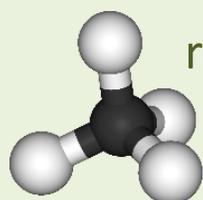
energy

material

carbon impacts



renewable hydrogen



renewable natural gas



electricity



mulch



fertilizers



wood products

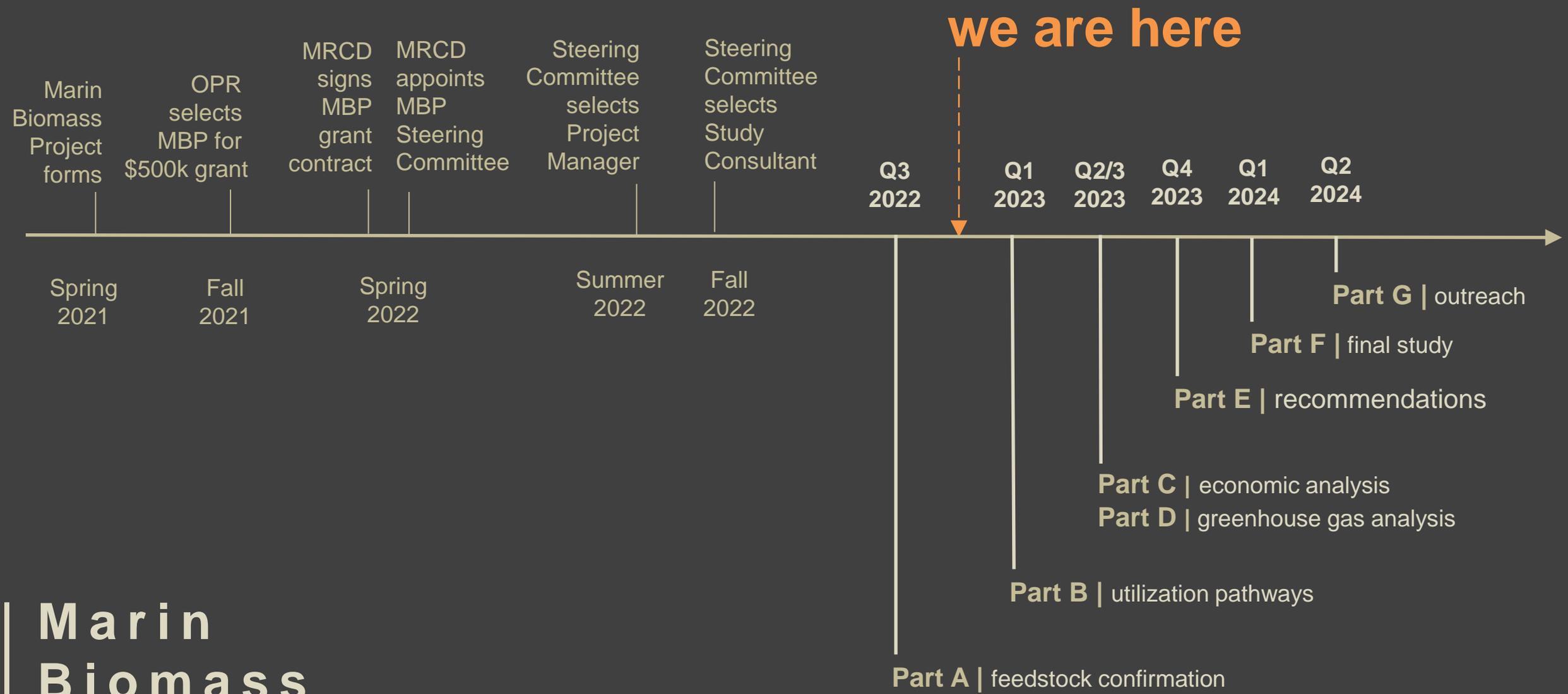


biochar

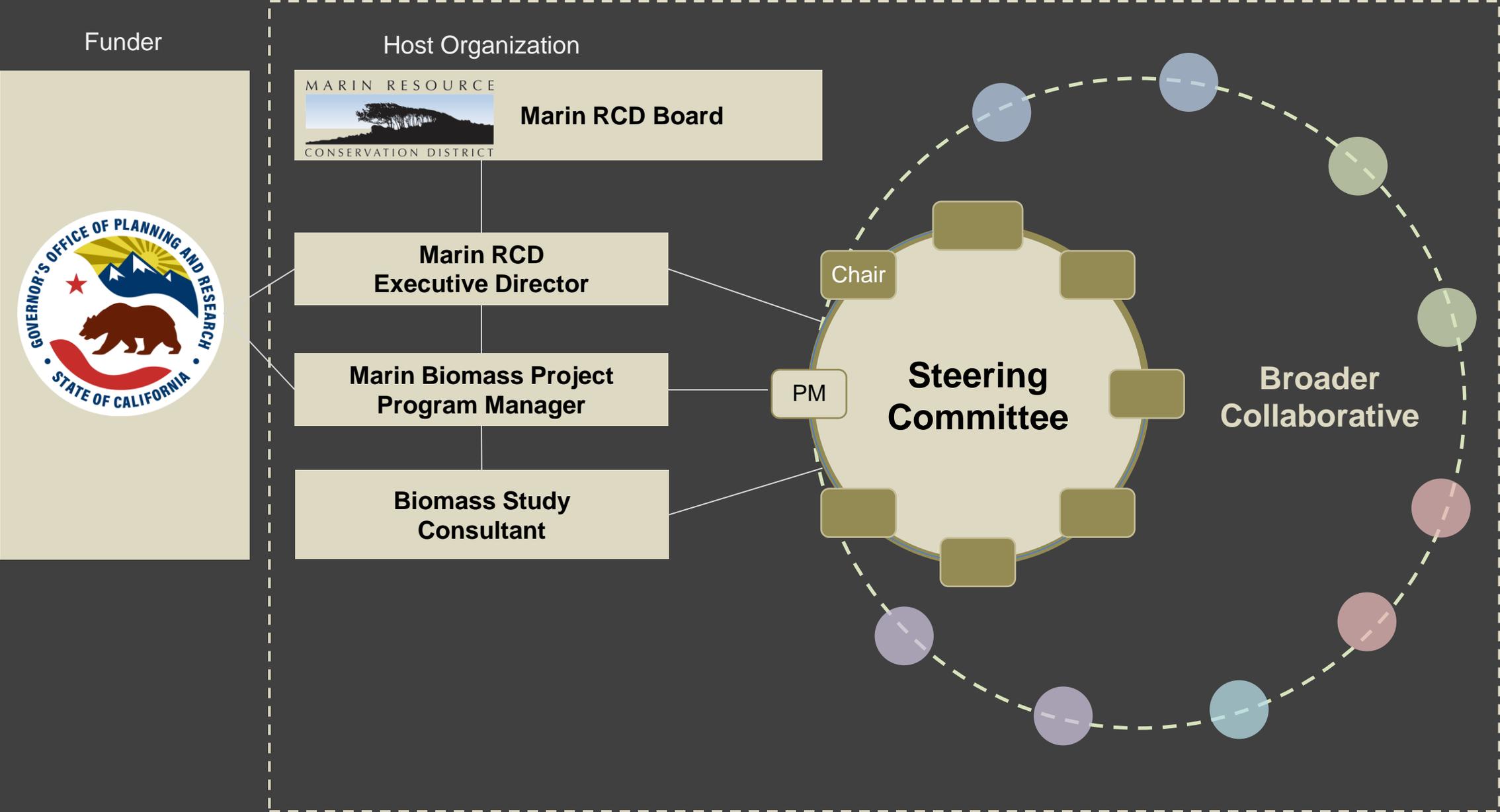


compost

Marin Biomass Project



Marin Biomass Project





Marin Biomass Project



- When capital is available, what recovery technologies can be built with it?
- When biomass needs to be recovered, what system can be built with a given amount of capital and economic flows?
- How can carbon reduction be used to organize and optimize the system?



Questions?

chad@marinrcd.org