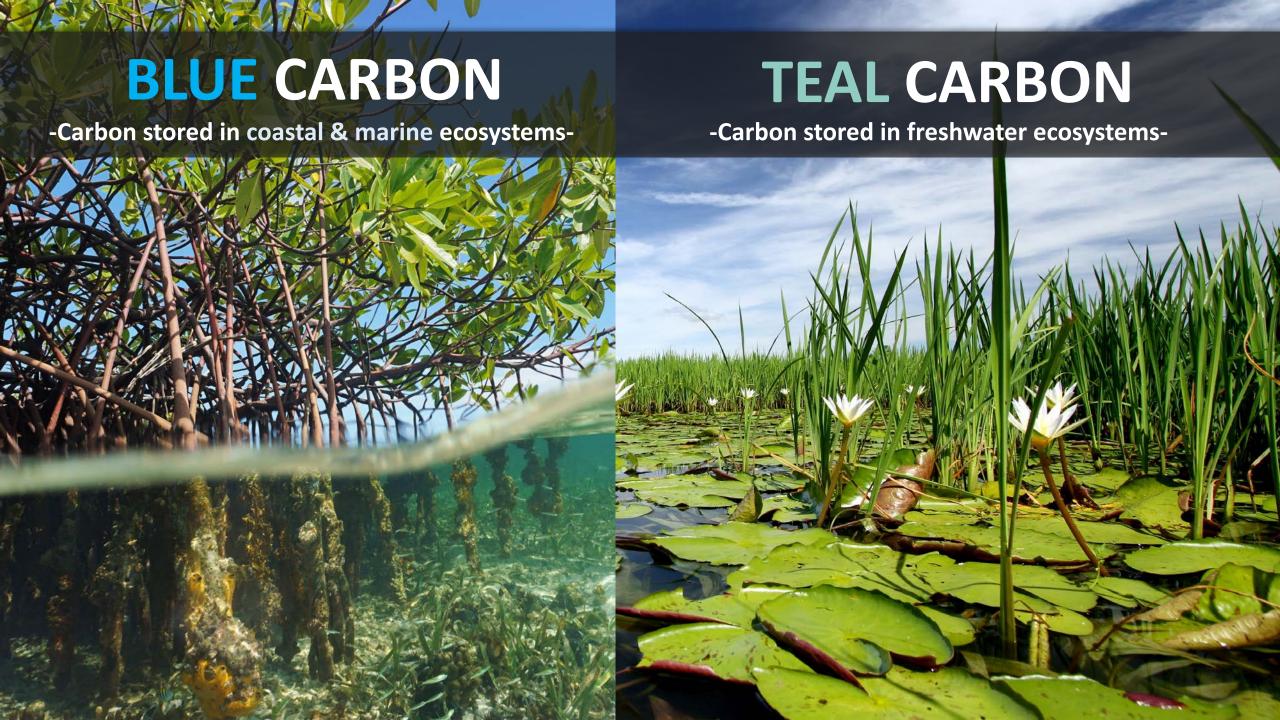
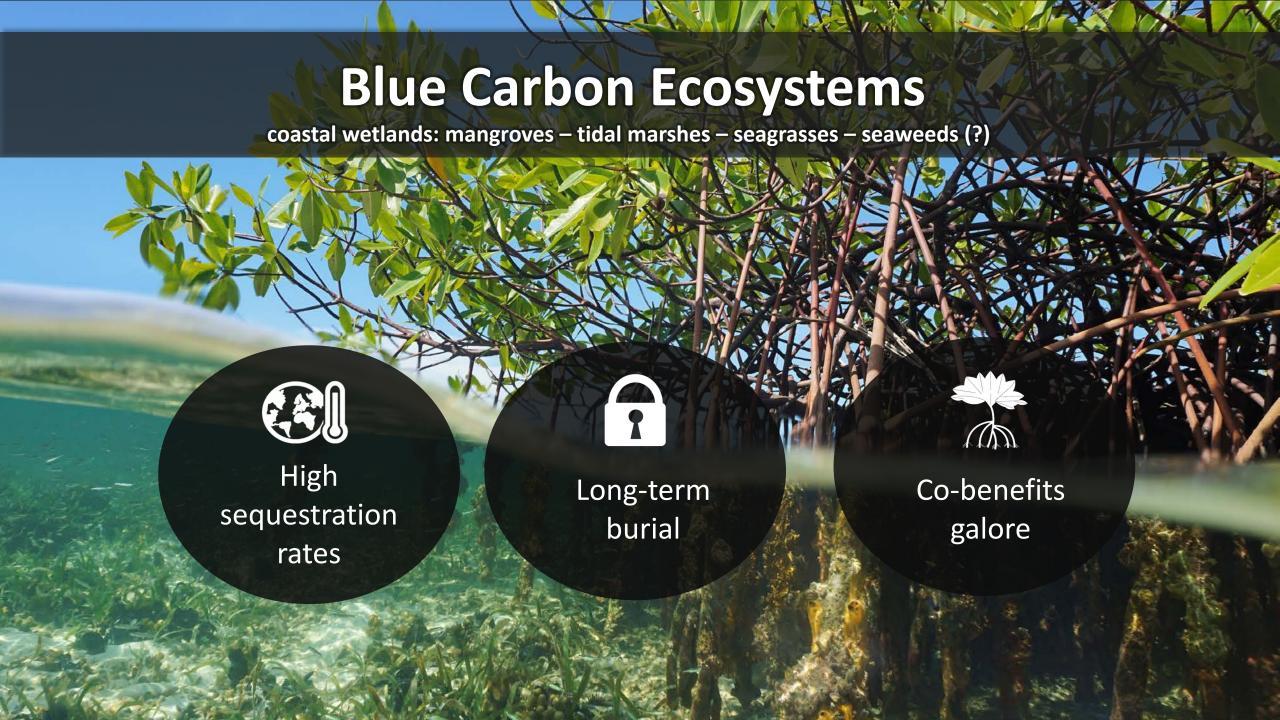




@PeterMacreadie

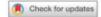




## **REVIEWS**

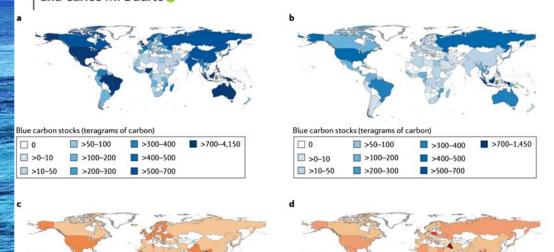
Blue carbon stocks per coastline length (teragrams of carbon per kilometre)

>0.0005-0.01 >0.05-0.10



## Blue carbon as a natural climate solution

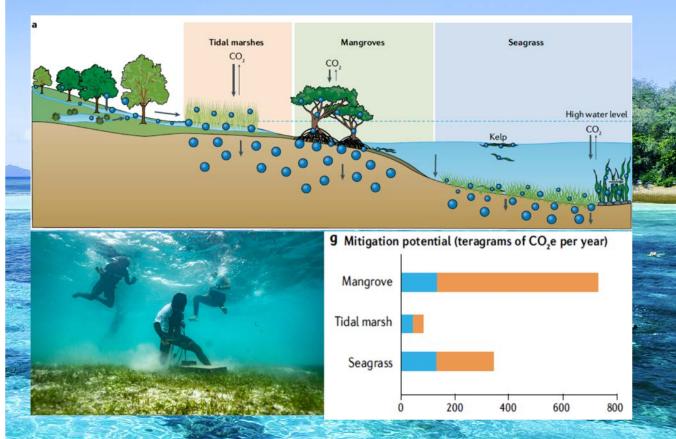
Peter I. Macreadie<sup>1 ™</sup>, Micheli D. P. Costa<sup>1</sup>, Trisha B. Atwood<sup>3</sup>, Daniel A. Friess<sup>4,5</sup>, Jeffrey J. Kelleway<sup>5</sup>, Hilary Kennedy<sup>7</sup>, Catherine E. Lovelock<sup>1</sup>, Oscar Serrano<sup>8,9</sup> and Carlos M. Duarte<sup>1</sup>



Blue carbon stocks per coastline length (teragrams of carbon per kilometre)

>0.05-0.10
>0.30-0.50

>0-0.05 >0.10-0.30 >0.50-1.12



## Australia's Blue Carbon



#### Stock

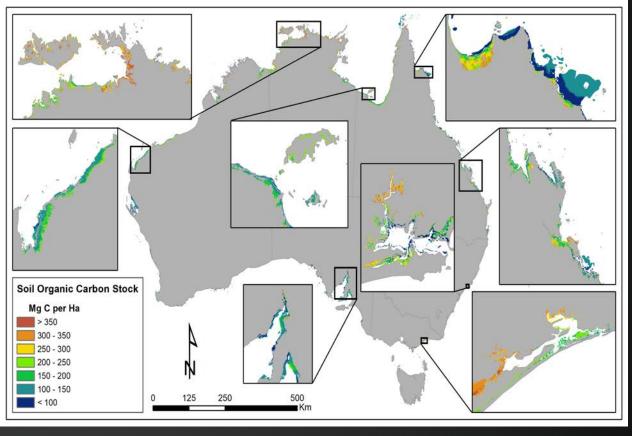
5-11% of the world's Blue Carbon

#### Sequestration

4-6% of the CO<sub>2</sub> emissions from burning fossil fuels

#### Loss

Equivalent to an extra 10 million cars on the road pa



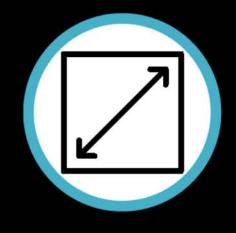
# BLUE CARBON OPPORTUNITIES AT A LOCAL SCALE

Western Port Biosphere



#### MAPPING

past, current and future distribution of coastal wetlands in the region



#### **ESTIMATING**

how much land is amenable for wetland restoration



#### **ESTIMATING**

additional co-benefits
(e.g. fisheries,
recreation, coastal
protection) provided
by these
ecosystems



#### **EVALUATING**

the feasibility of developing a blue carbon restoration project within the region

## **DELIVERABLES**

The results of the activities outlined will be compiled into a report detailing the Blue Carbon assets for the Western Port Biosphere and will include:



#### HABITAT MAPS

Maps showing the habitat distribution (past and current)



#### RESTORATION MAPS

Maps and estimates of area available for restoration



## ECOSYSTEM VALUES

of ecosystem services provided by coastal wetlands



### FUTURE

Scope for future blue carbon in the region & development of a roadmap to guide future actions

#### **BLUE CARBON IN HOBSONS BAY CITY COUNCIL**









HISTORIC DISTRIBUTION (Boon et al. 2011) REMOVAL (Moritsch et al. 2021) MANAGING SLR (Moritsch et al. 2021)







# VICTORIAN COASTAL WETLAND RESTORATION PROGRAM















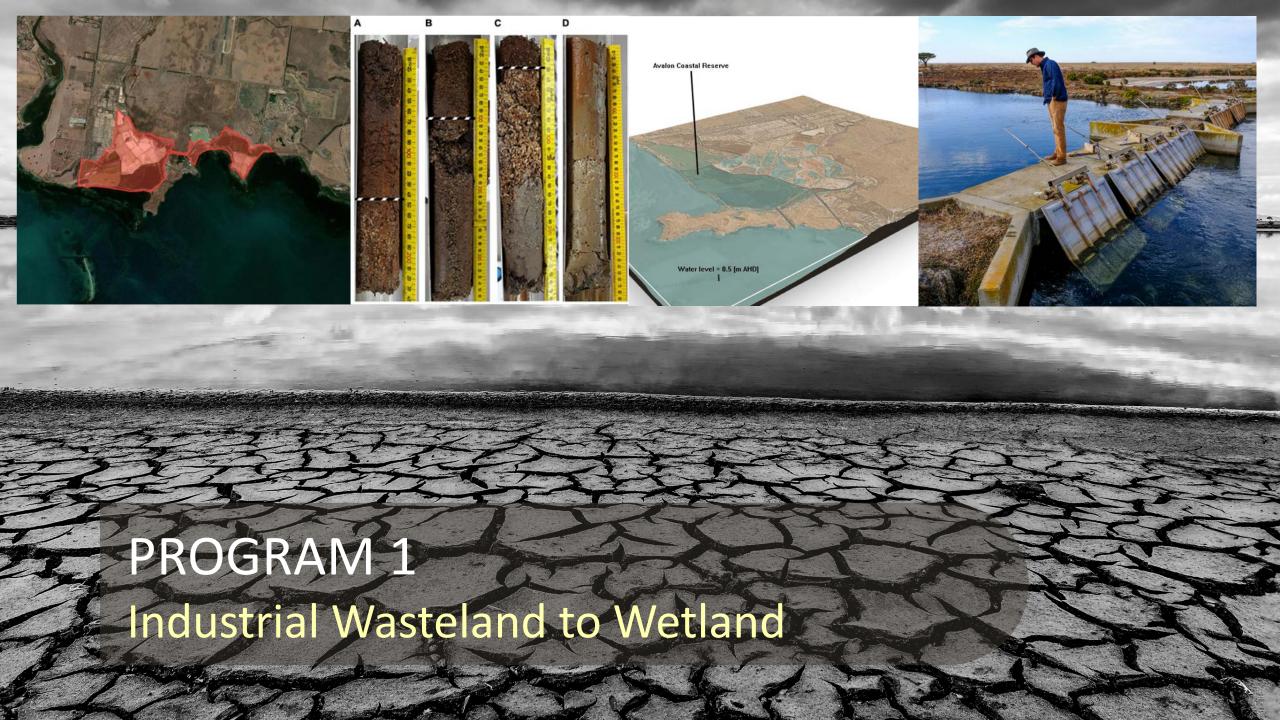


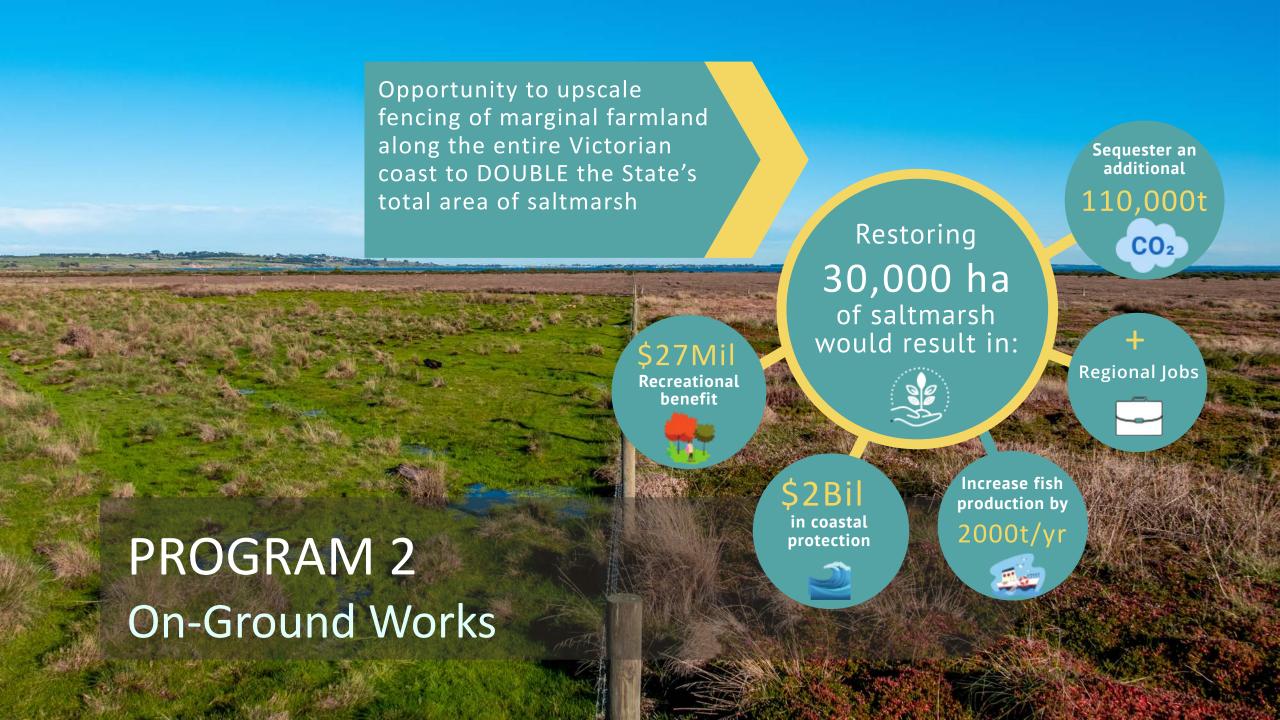
















## Thank you for listening



www.bluecarbonlab.org