Biscayne Bay Florida - 1997

Mangrove habitat destroyed in 1992

by Hurricane Andrew Cat 5 Storm

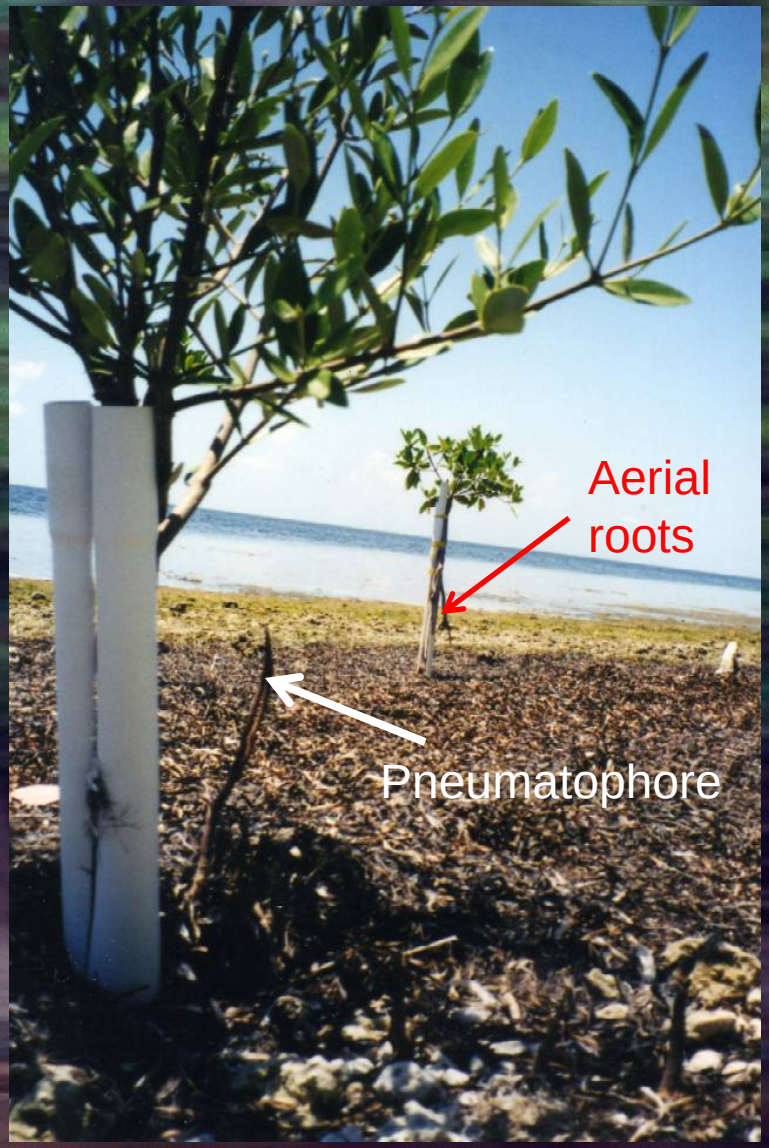
REM Encasement Devices installed

Wrack Line & Debris

Isolation protects developing seedlings

Adaptation process

Pneumatophores
and Aerial Roots



Reforestation, shoreline stabilization, habitat restoration

Biscayne Bay, Florida -1997

Biscayne Bay, Florida - 2007

Ecological infrastructure

Eroding shoreline with exotic vegetation

Soil Conservation / Land Building

Accretion - sediment binding by prop roots

Cape Canaveral 1998

Cape Canaveral 2006

Social impact of REM reforestation

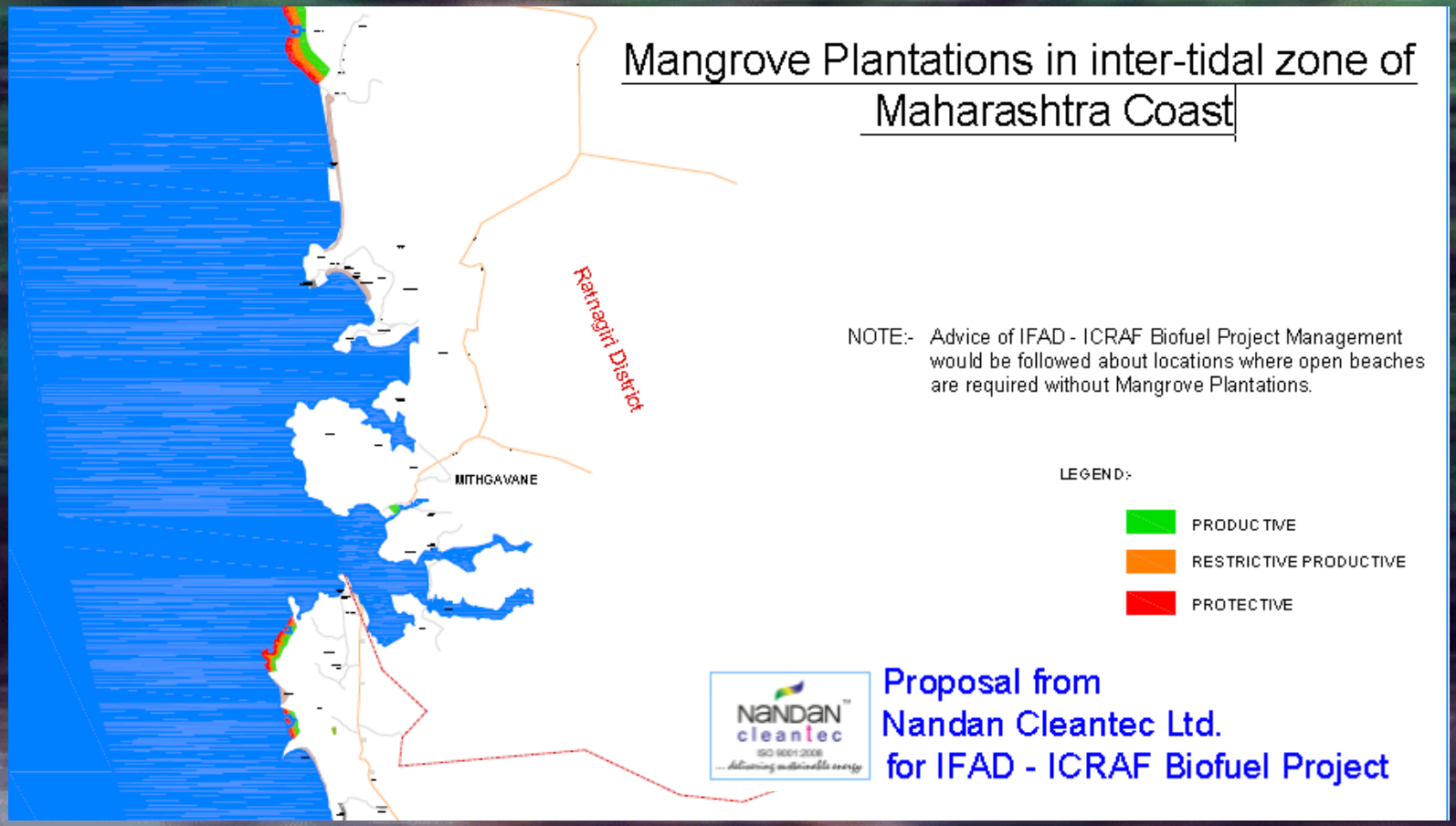
Manzanar Project Eritrea

700,000 trees - intertidal flats

providing livelihood and economic base

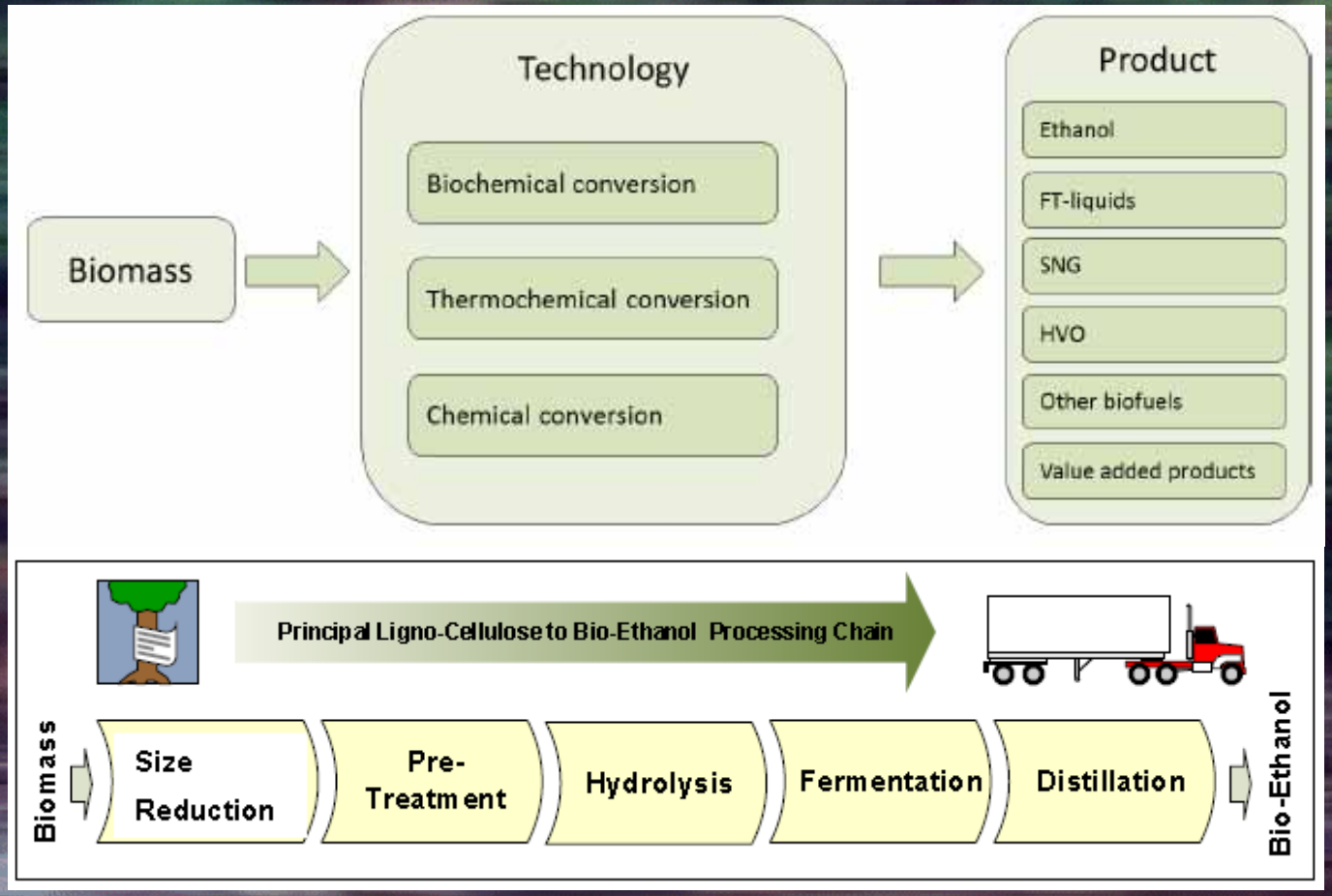
Mangrove reforestation for sustainable ranching and aquaculture

Maharashtra Application
REM Coastal Reforestation Technology



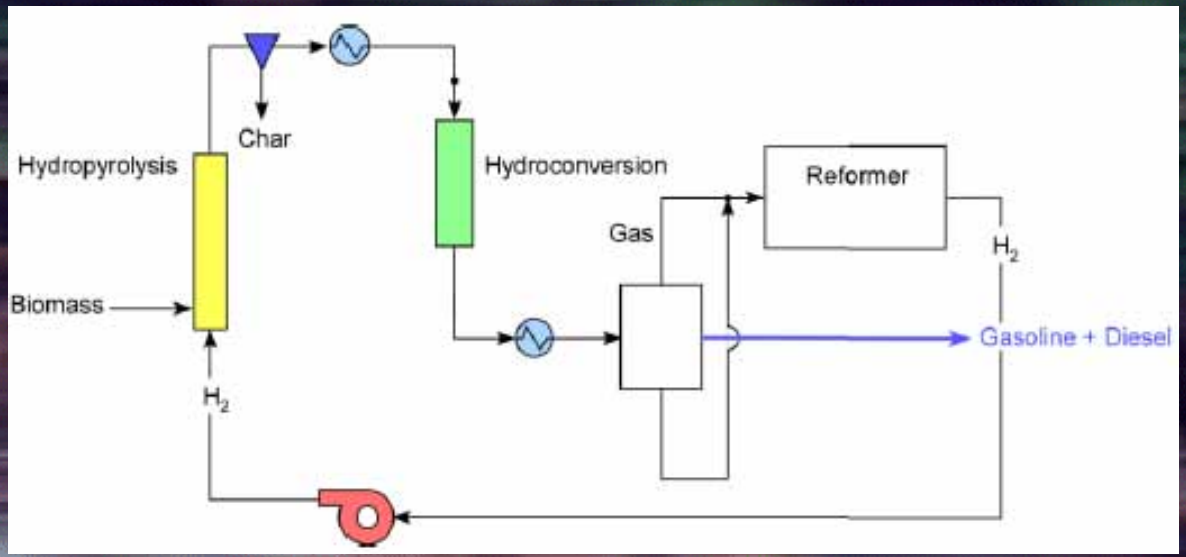
Advanced biofuel technologies

Biochemical Conversion of Lignocellulosic Biomass



IH^2 Technology

- Converts mangrove biomass directly into high quality, drop in, gasoline and diesel.
- The process is able to produce gasoline and diesel at a market competitive price on a commercial scale.



REM Reforestation in Agroforestry

- Soil conservation, shoreline stabilization, erosion control
- Reduces pollutants reaching coastal waters
- Creates ecological infrastructure, promotes biodiversity
- Improves water quality, quality of the atmosphere, sequesters carbon
- Supports commercial & recreational fisheries, protects coral reefs
- Strengthens coastal resilience
- Renewable natural resource for sustainable economic growth

A Novel Model for Mangrove Agroforestry to Provide Livelihoods and Biofuel Feedstock

Riley Encased Methodology®

mangrove.org®
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Indian River Shores
FL 32963 USA