

GREEN BAY

Ecosystem Modeling

- Restoring the health of Green Bay ecosystem under a changing climate:
- Modeling land use, management, and future outcomes

KEY COMPONENTS

CONSERVATION ACTIVITIES

BETTER WATER QUALITY



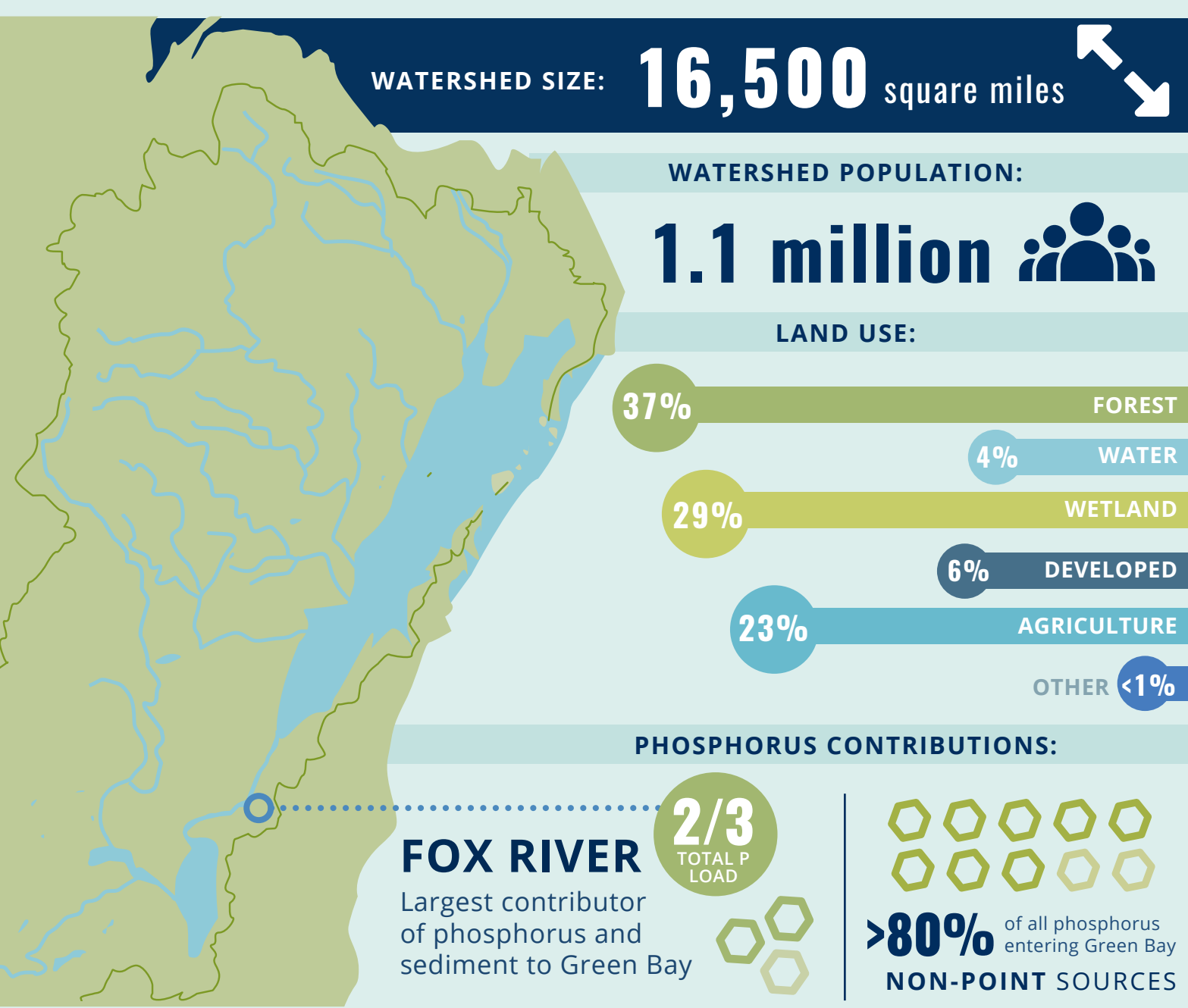
↓ DECREASED SEDIMENT/NUTRIENT INPUTS

↓ SMALLER ALGAE BLOOMS

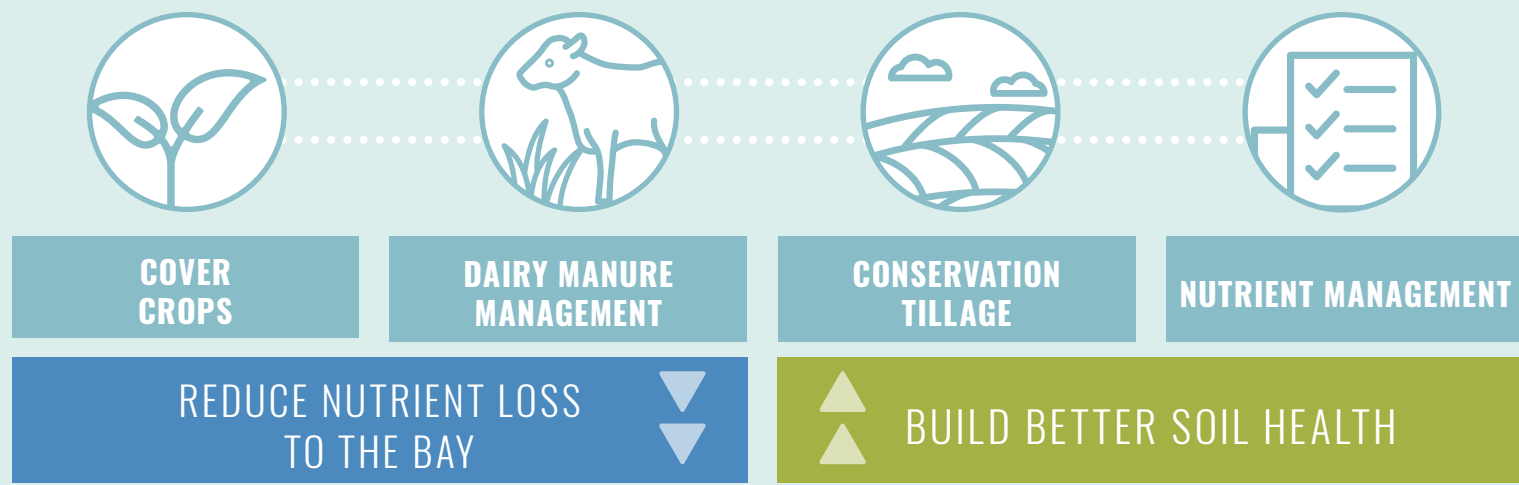
↑ HIGHER DO LEVELS

↓ FEWER DAYS OF HYPOXIA

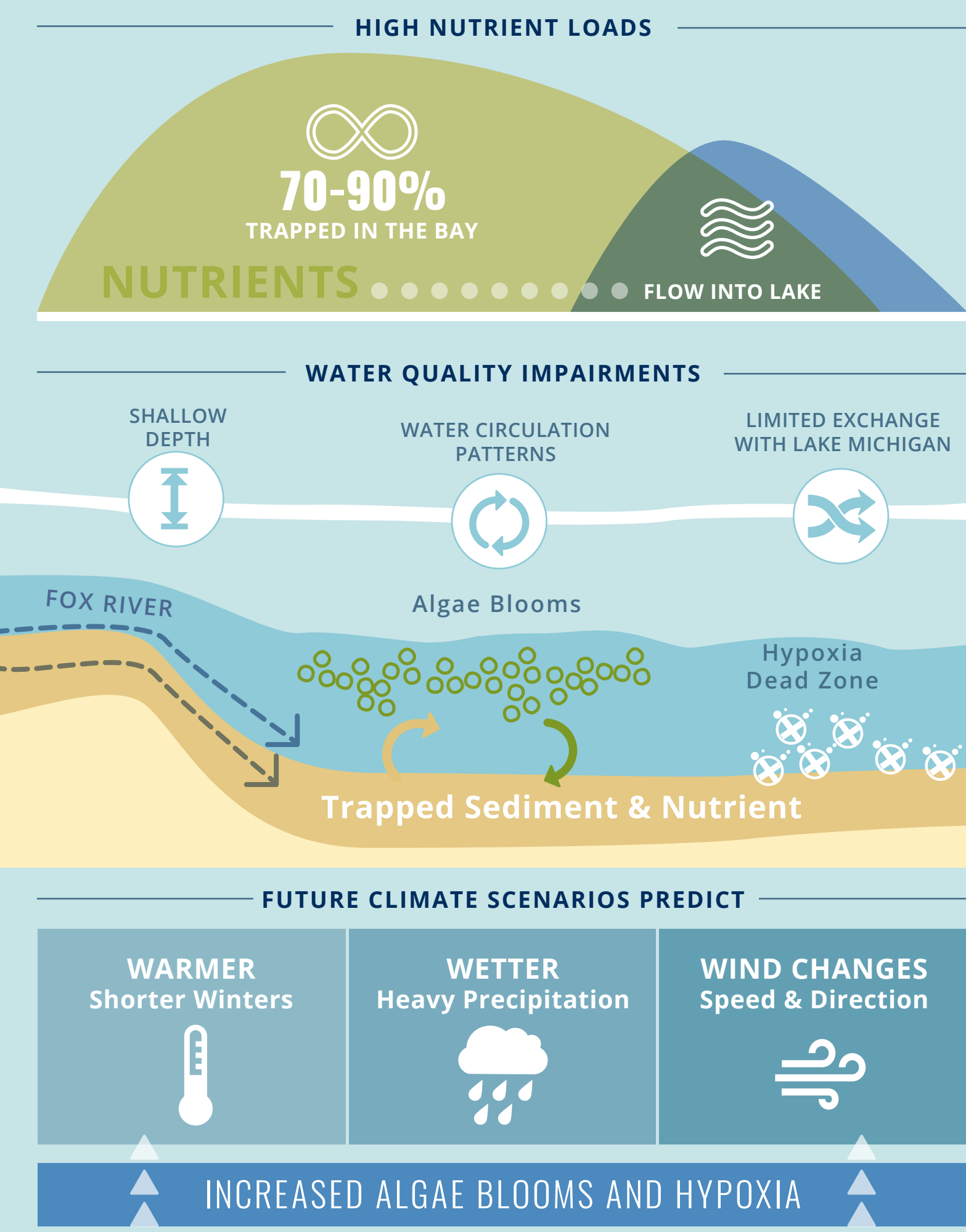
THE WATERSHED



LAND MANAGEMENT MOVING TOWARDS

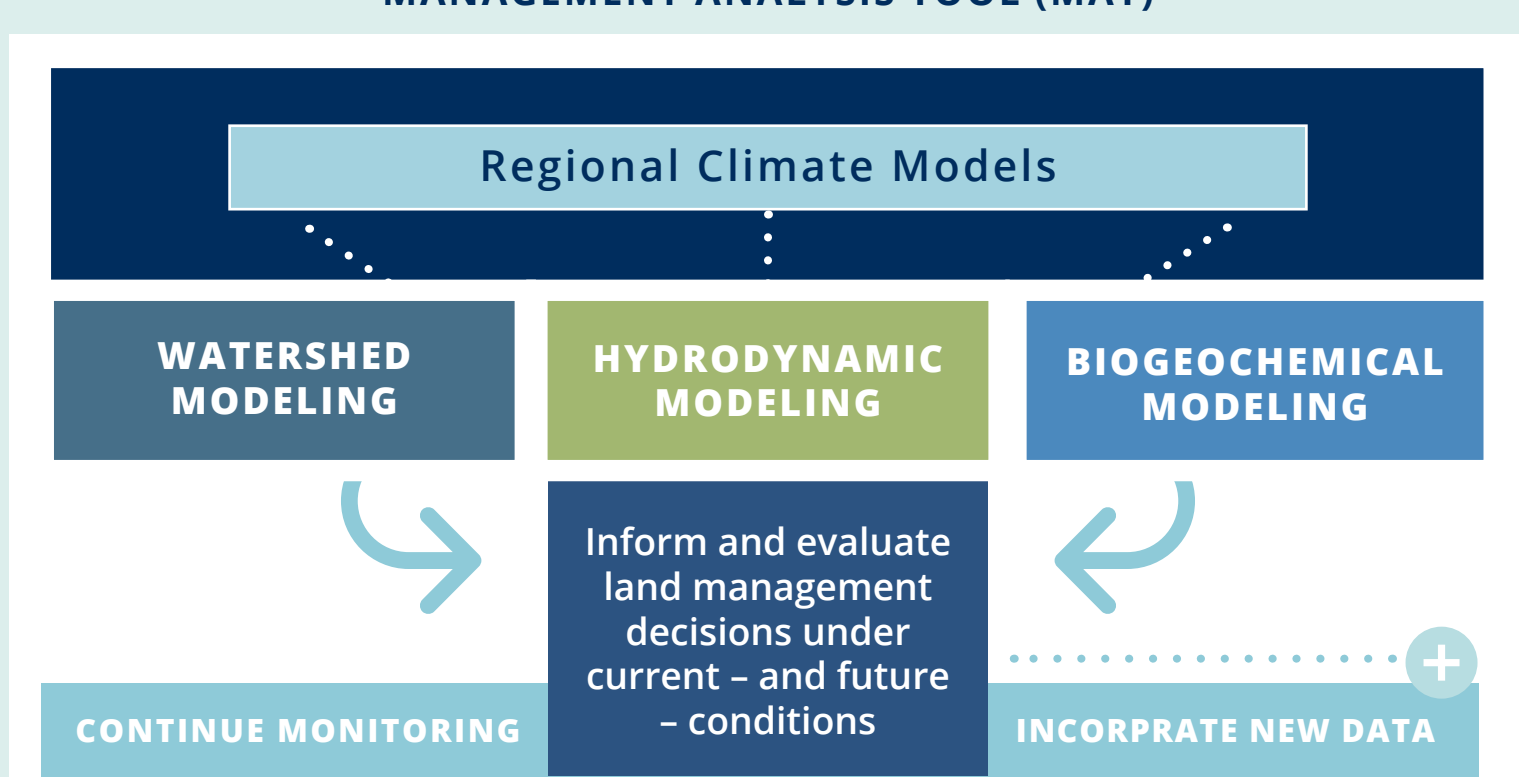


THE BAY



ADAPTIVE MANAGEMENT

MANAGEMENT ANALYSIS TOOL (MAT)



MAT CAPABILITIES

Will investments in better land management be effective to restore Green Bay under a changing climate?

MEASURE	How Green Bay might respond	IF WE	Keep nutrients and sediments on farm fields and out of waterways.
DEMONSTRATE	Where in the watershed placement of these practices might be most effective	SO WE CAN	Quantify how much implementation is needed.
EXPLORE	Potential impacts of climate change on Green Bay	WHEN WE	Run models with projected future values for daily temperature and precipitation.
INCORPORATE	New monitoring data to illustrate progress toward Green Bay water quality goals	SO WE CAN	Improve models and adapt management activities.