

Shoreline Planning, Management, and Regulation at the Local Level

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Shoreline Management is Part State, Part *Local*

- Specifically delegated authority to adopt state-approved shoreline management ordinances
- Generally delegated authority to plan for and manage the development of shorelines via local master plans, zoning codes, CIPs, etc.

How well are they doing?

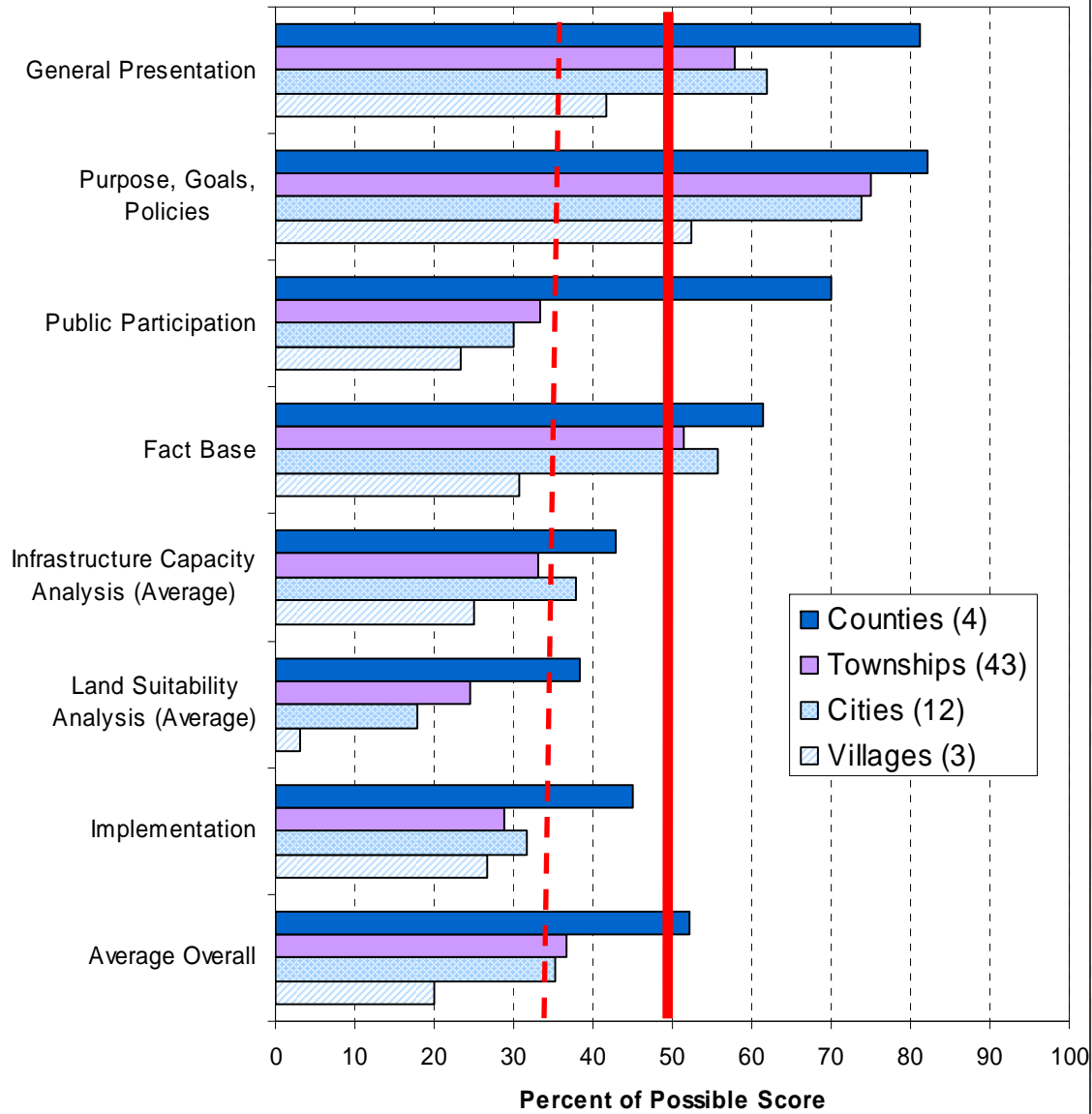
Preliminary content evaluation of
local Coastal MI master plans and zoning codes

Analytical Framework:

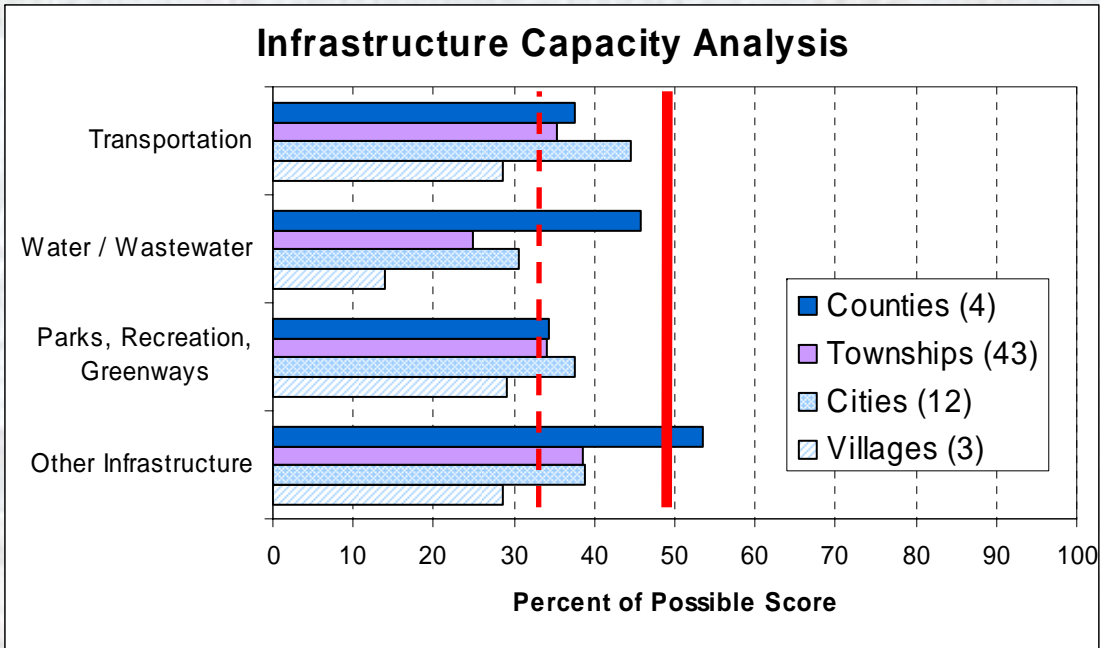
- Plan Quality
 - Presentation, fact base, implementation
 - Analysis: infrastructure capacity, land suitability
- Plan Consistency
 - With state mandates
 - Internal (goal-policy, policy-policy coherency)
- Plan Policy Focus
 - “Smart Growth” policy categories
 - Coastal area resource management/protection
- Zoning Code Policy Focus
 - “Smart Growth” policy categories

Measurement: “percent of possible score”

Plan Analytical Quality



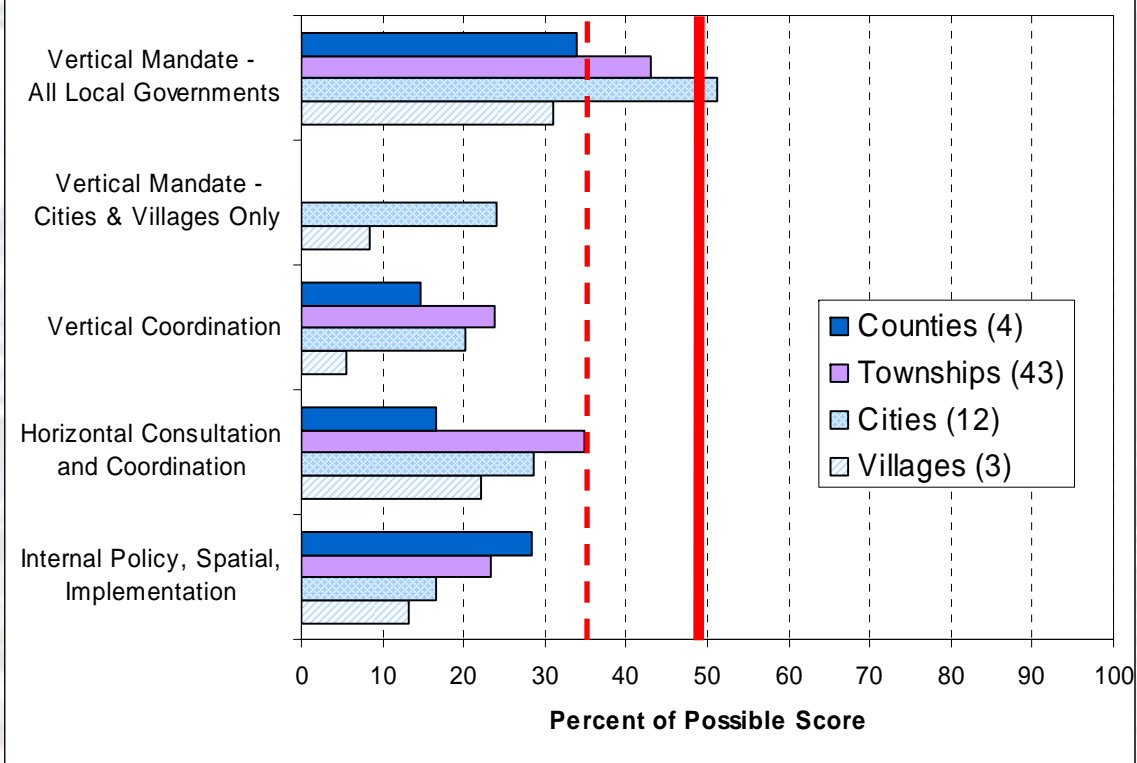
Infrastructure Capacity Analysis



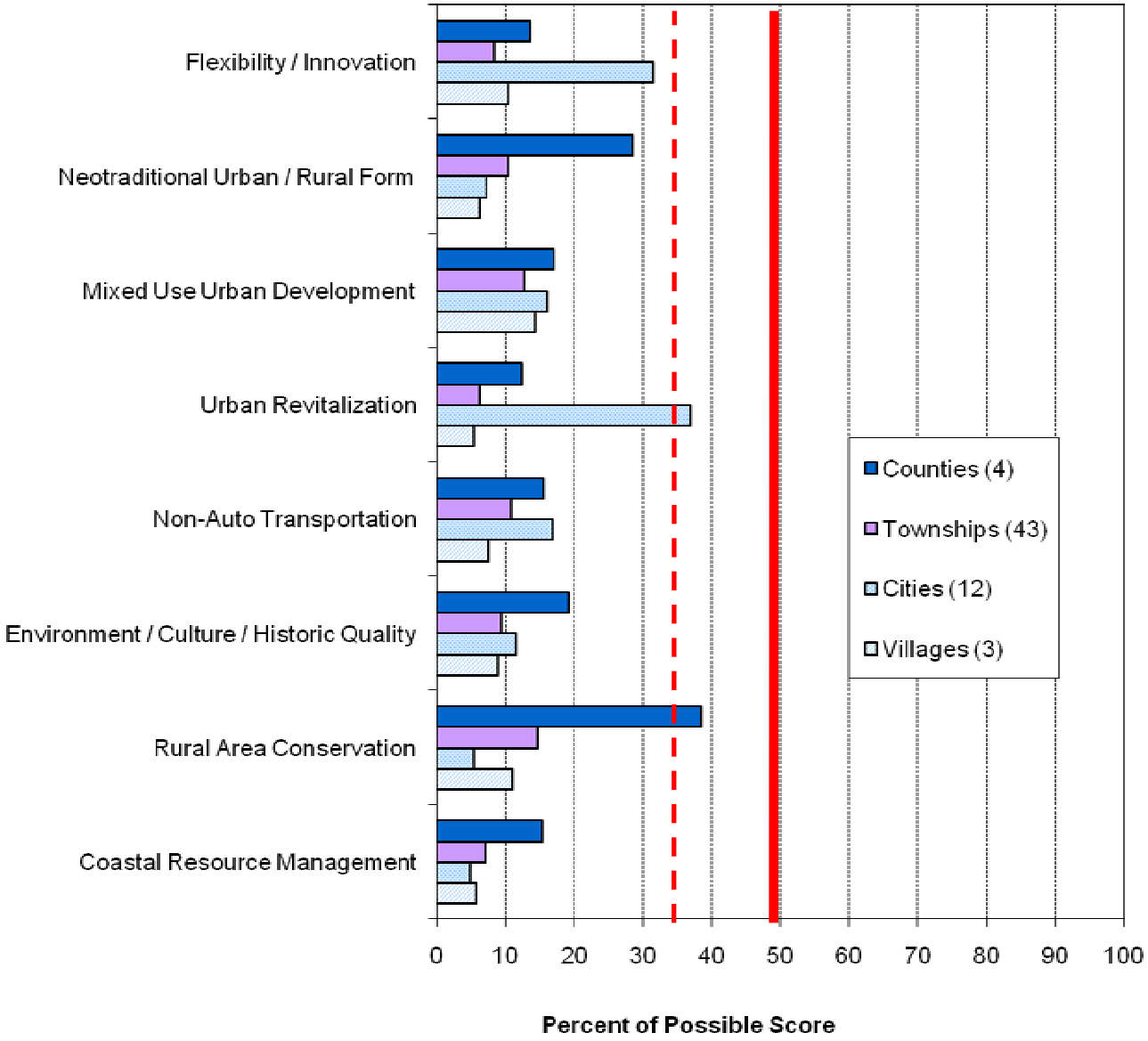
Land Suitability Analysis



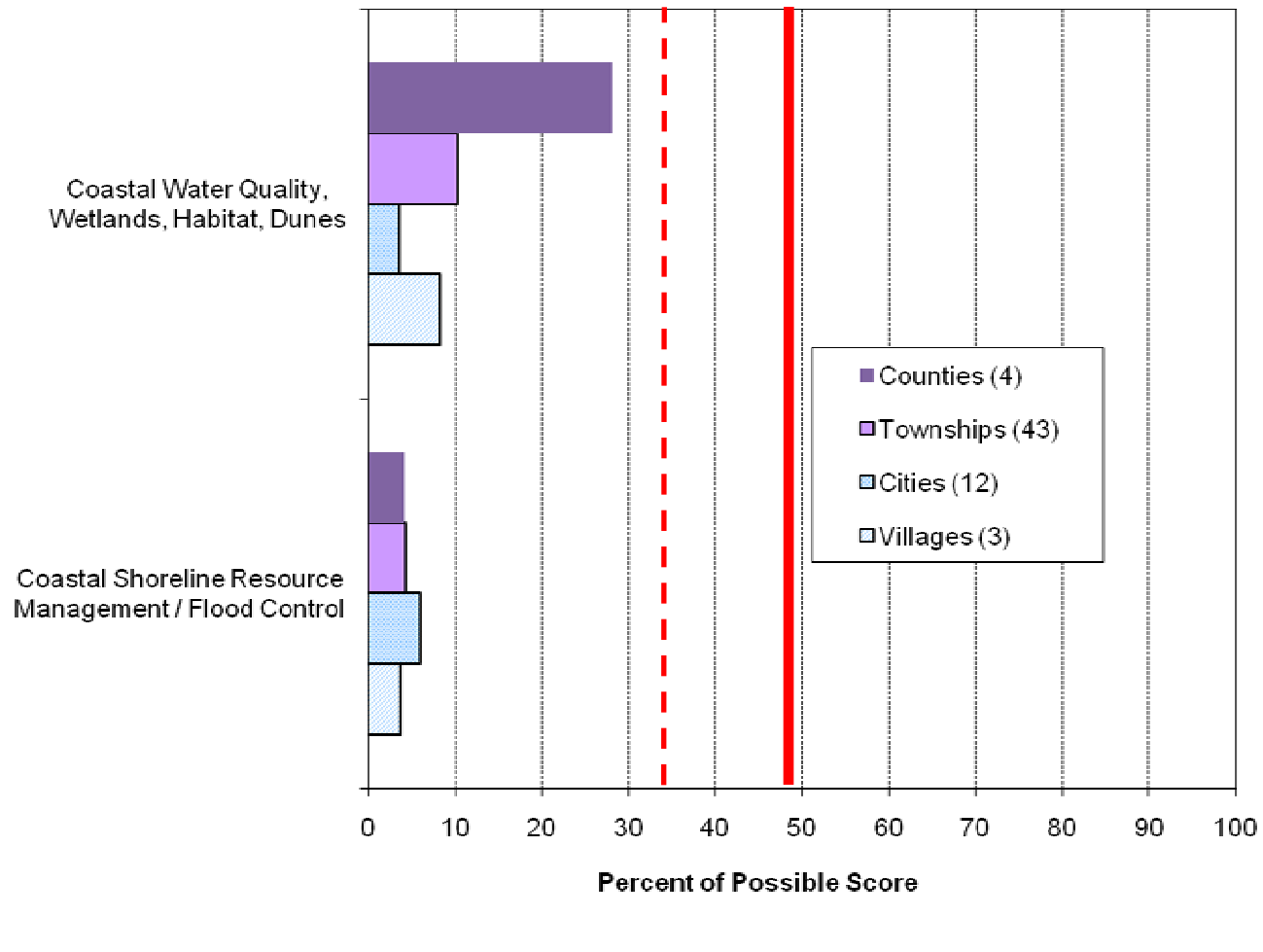
Plan Consistency



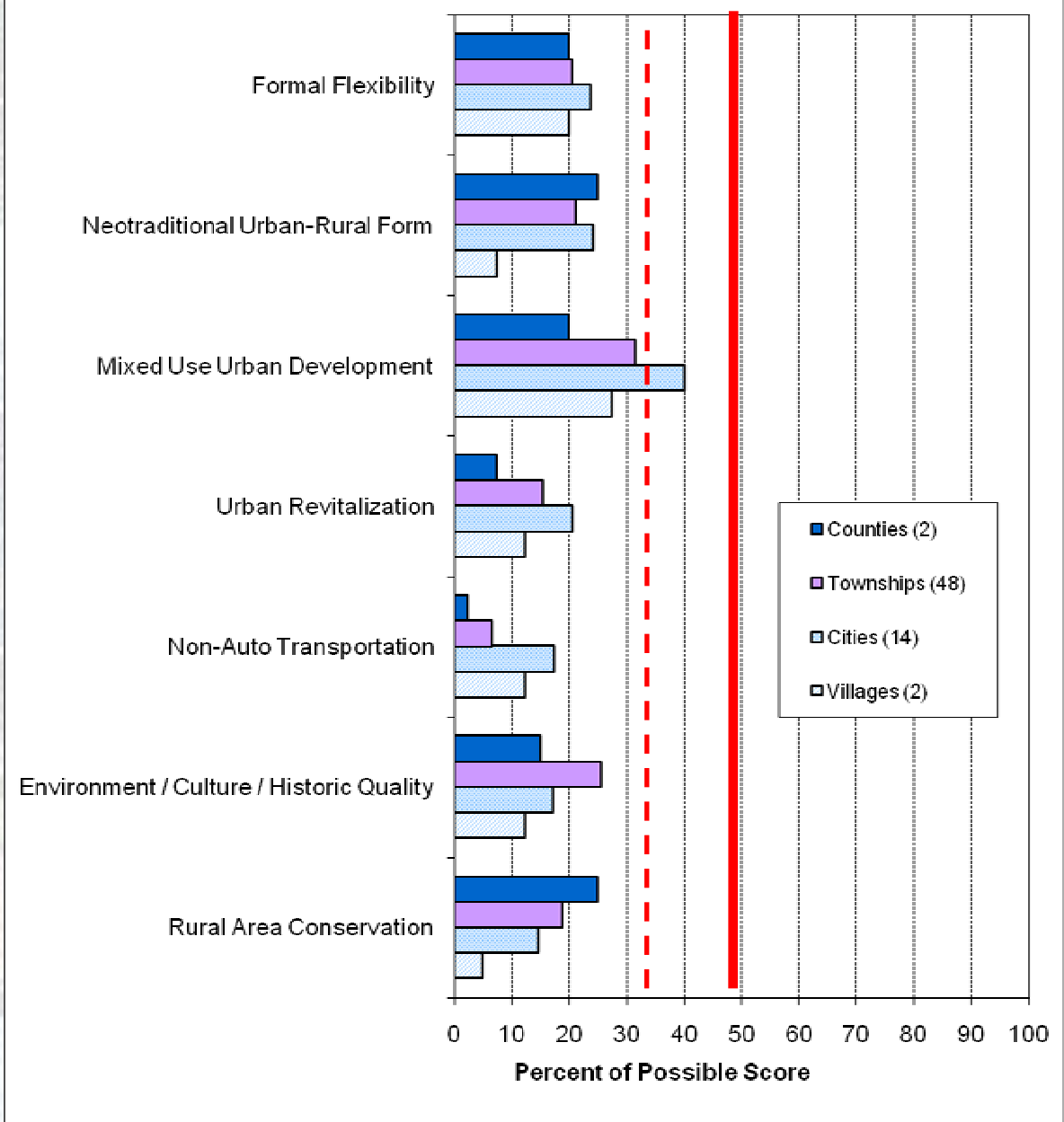
Plan Policy Focus



Coastal Resource Management (Average Scores by Sub-Element)



Zoning Code Policy Focus



Bottom(land) Line:

- Local planning and regulation in general—and especially for coastal resource management—is not strong in Coastal Michigan localities.
- But, some good news ...

t-test for Significant Difference in Means – Plan Policy Focus % of Possible Scores

Policy Focus	CZM Funded Communities (7)	Non-CZM Funded Communities (55)	Difference in Means (p-value)
Rural Area Conservation	25	13	12 (0.039)
Coastal Area Resource Management (overall)	15	6	9 (0.012)
Coastal: Water Quality, Wetlands, Habitat, Dunes	17	9	8 (0.087)
Coastal: Shoreline Management / Flood Control	13	4	9 (0.015)