Proactive And Remedial Actions

Slowing erosion, and protecting a coastal home

All graphics in this presentation come from

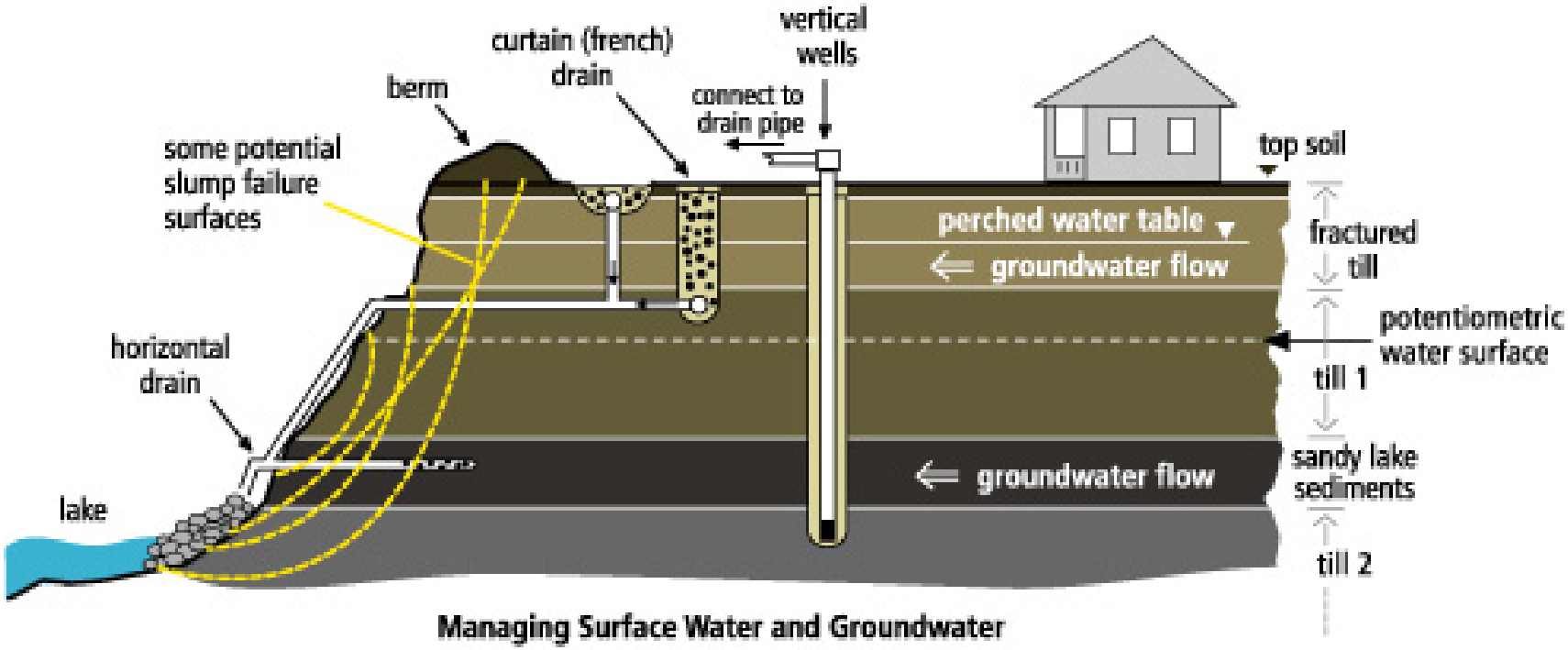
“LIVING ON THE COAST”

A pending publication of the U.S. Army Corps of Engineers and the University of Wisconsin Aquatic Sciences Center

Preventing And Fixing Coastal Erosion

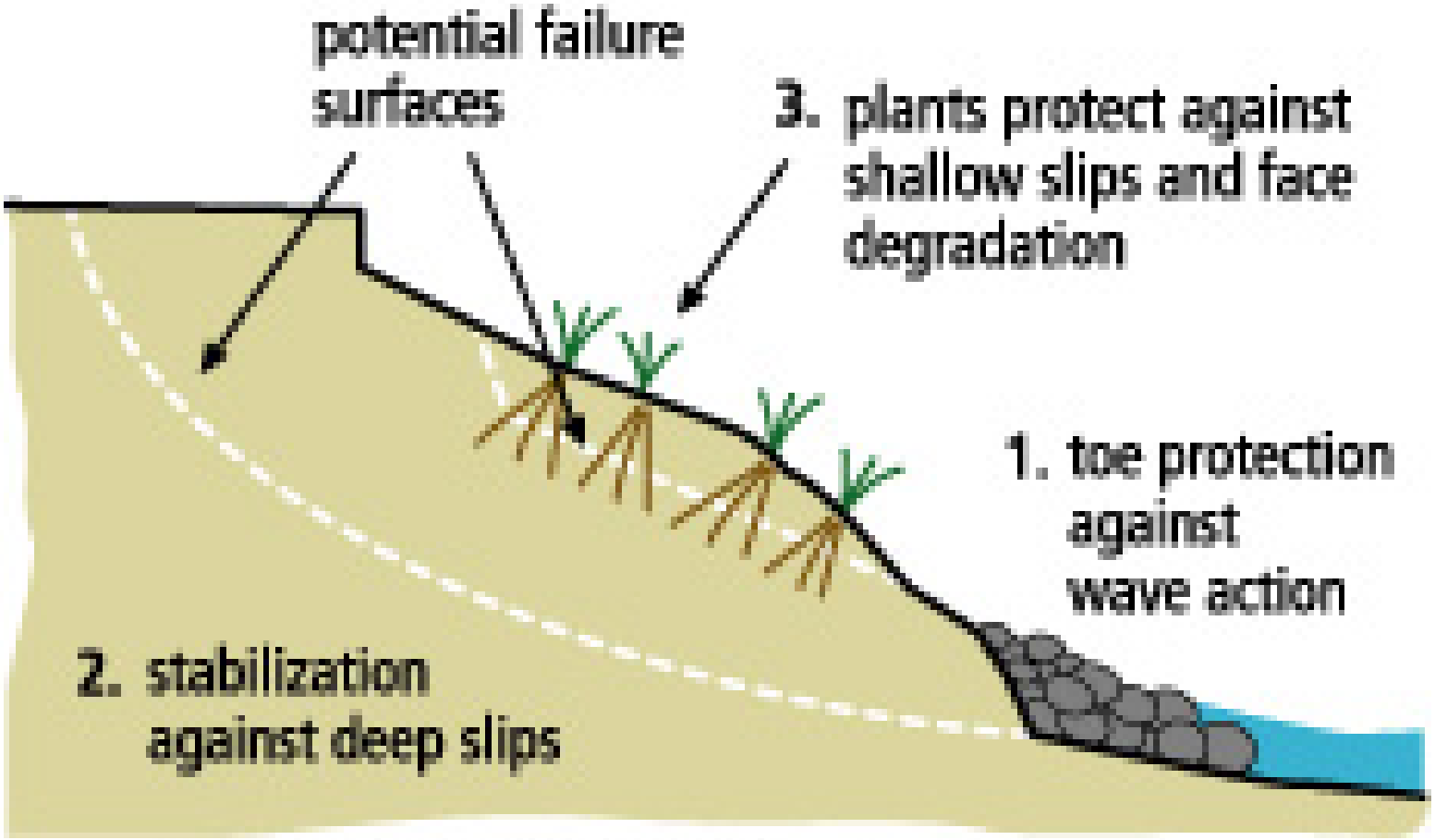
- Don’t build close to slope edges
- Locate buildings far from slope
- Control water on/in land
- Last resort: stabilize shore
- Use experienced professionals

Basic Strategy: Control Water In And On Coastal Property



Managing Surface Water and Groundwater

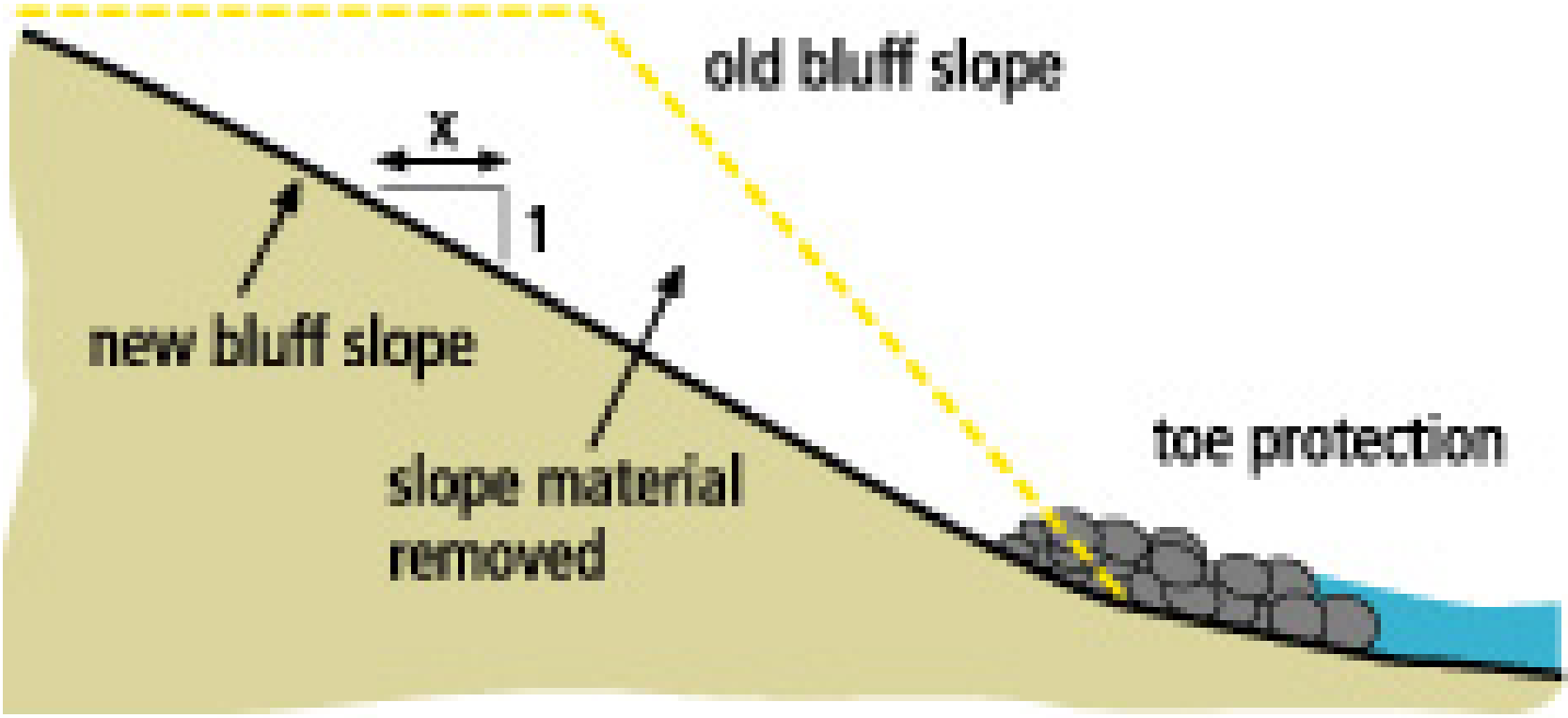
Three Added Ways To Control Slope Erosion



Three Basic Bluff Stabilization Strategies

COASTAL EROSION

Regrade To Stable Slope And Protect Slope Toe



Cutback Slope Stabilization Method

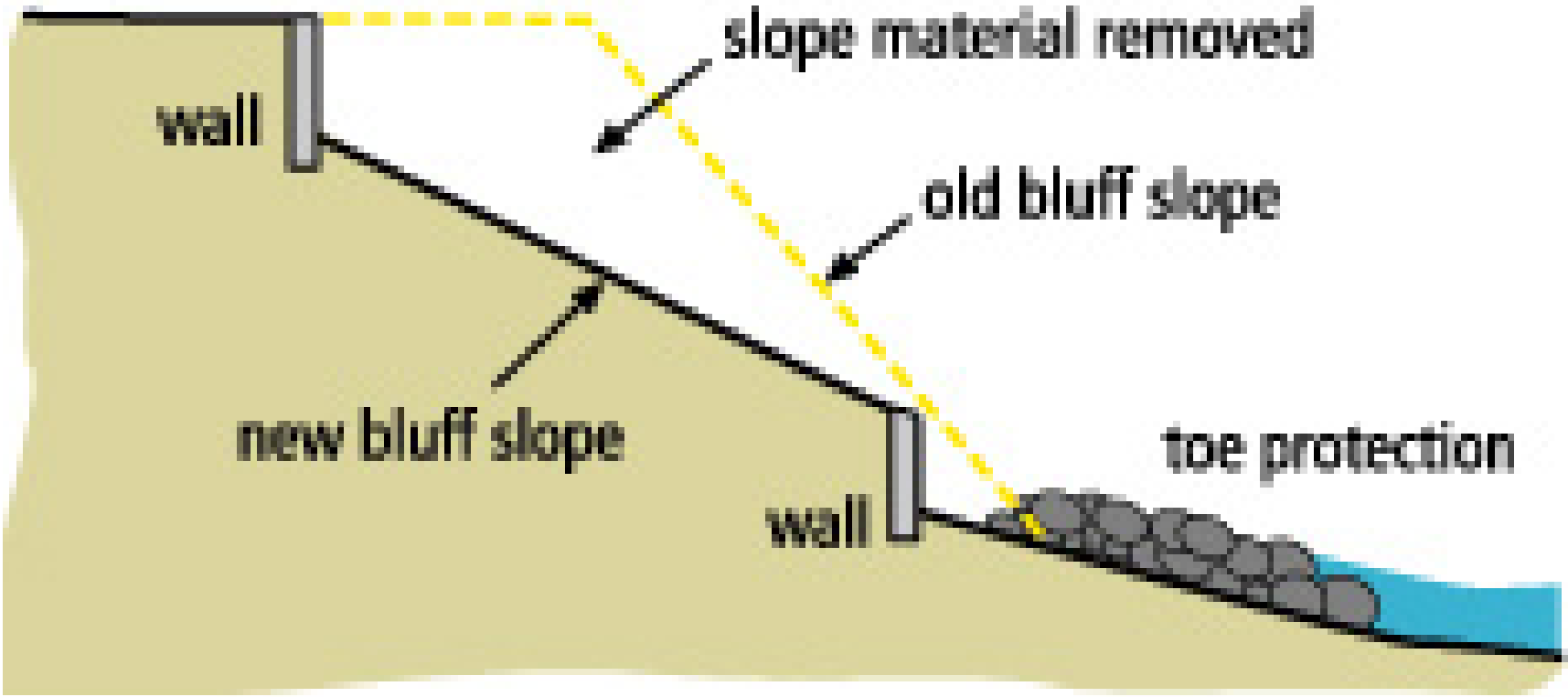
x:1 = Recommended stable slope ratio

COASTAL EROSION

Describing A Slope

- **Horizontal to vertical distance**
- **A ratio**
- **Example: 2.5 to 1 slope (2.5:1)**

Regrade, Terrace Slope And Protect Slope Toe

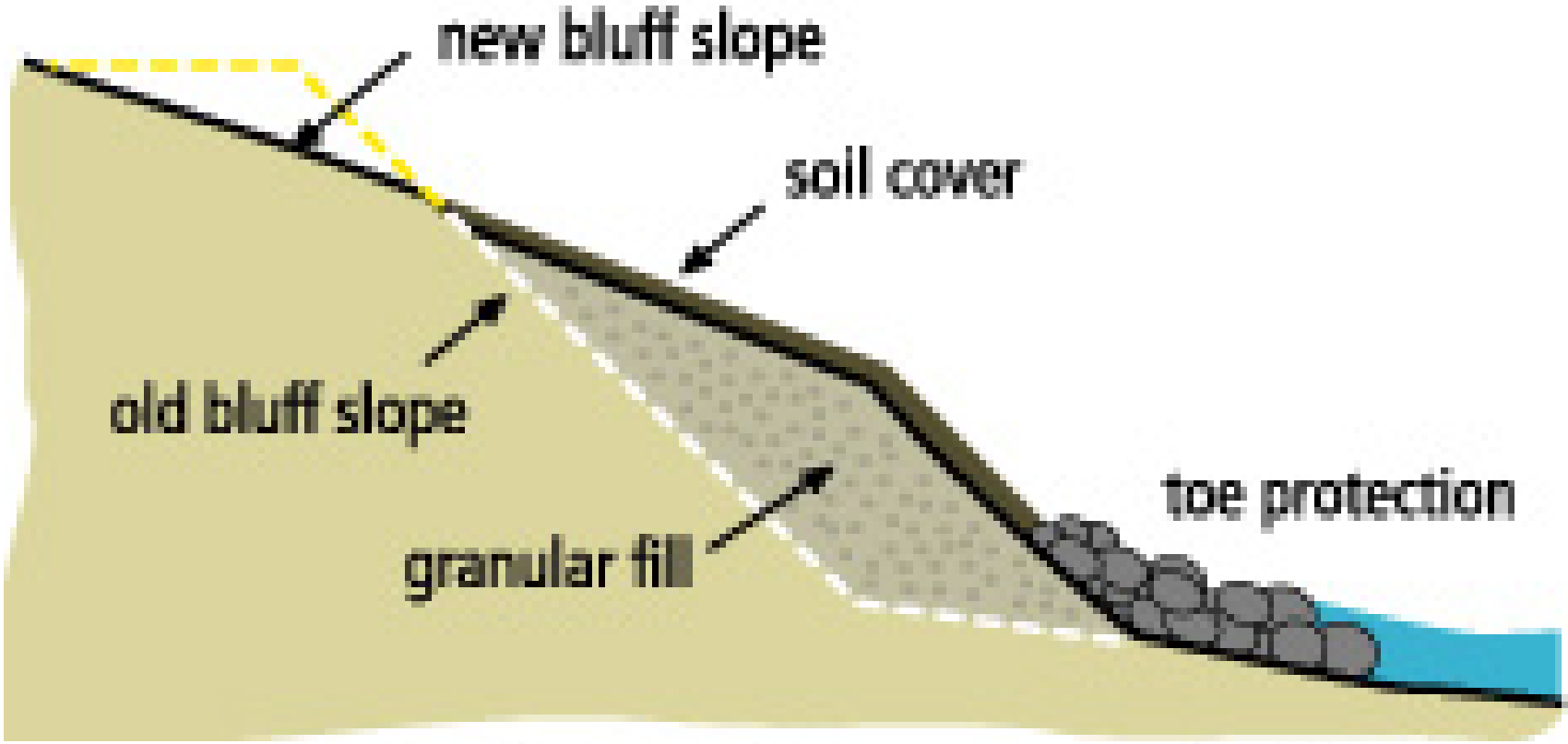


Terraced Bluff Stabilization Method

COASTAL EROSION

COASTAL EROSION

Cut/fill Slope
And Protect Slope Toe



Cut and Fill Slope Stabilization Method

Preventing And Fixing Coastal Erosion

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For Reading About Stabilizing Slopes

- **Subsurface Drainage for Slope Stabilization by Kevin Forrester. 2001. American Society of Civil Engineers. Paperback.**

- **Biotechnical and Soil Bioengineering Slope Stabilization by Donald Gray and Robbin Sotir. 1996. John Wiley and Sons, Inc. A Wiley-Interscience Publication. Hardcover.**