

SEACAP 21/004

**Mainstreaming Slope Stability Management – Hazard and
Risk Assessment – to Laos Practitioners**

Theme 11

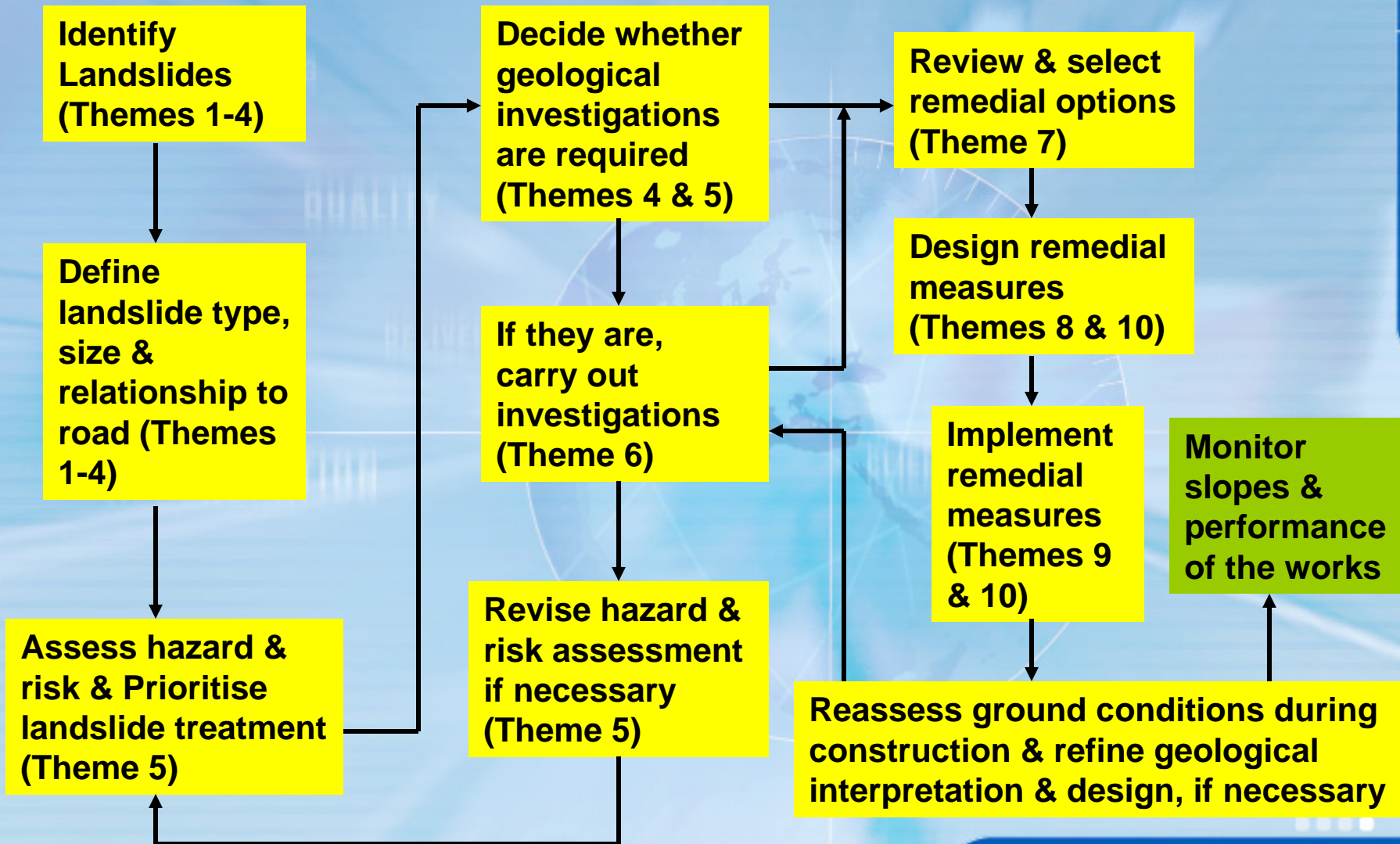
Integrated Slope Stability Management

SEACAP 21/004 Landslide Management

The training programme has covered several related Themes

- Theme 1: Types of slope instability
- Theme 2: Factors influencing slope instability
- Theme 3: Introduction to slope stability management
- Theme 4: Slope & roadside inspections & assessments
- Theme 5: Slope instability, hazard and risk assessment
- Theme 6: Engineering geological assessments
- Theme 7: Remedial measures: Selection of options
- Theme 8: Remedial Measures: Design
- Theme 9: Remedial measures: Construction
- Theme 10: Bio-engineering measures of slope protection
- Theme 11: Integrated slope stability management

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Key elements of integrated slope stability management

- Knowledge of existing landslide locations, above, below & through road
- Assessment of the hazard and risk posed by these landslides to the road and its traffic, and prioritisation of mitigation works accordingly
- Selection & design remedial works on the basis of a sound knowledge of landslide extent, depth, failure type & materials
- Implementation of remedial works according to design and specification, ensuring quality of construction and monitor ground conditions during construction
- Application of the same approach to new landslides that are triggered during heavy rain, for example
- Management of road drainage & spoil to minimise impact on slope stability & erosion
- Use of bio-engineering to help remedy shallow landslides and reduce slope erosion, and protection works in streams to minimise stream erosion
- Quality control, supervision and good site preparation