

The background of the slide features a close-up, slightly blurred view of a desk. Several large sheets of paper, likely architectural blueprints, are rolled up and stacked. A white marker with a blue cap is visible, along with a red pencil and other drafting tools. The overall color scheme is a deep blue with white grid lines overlaid on the image.

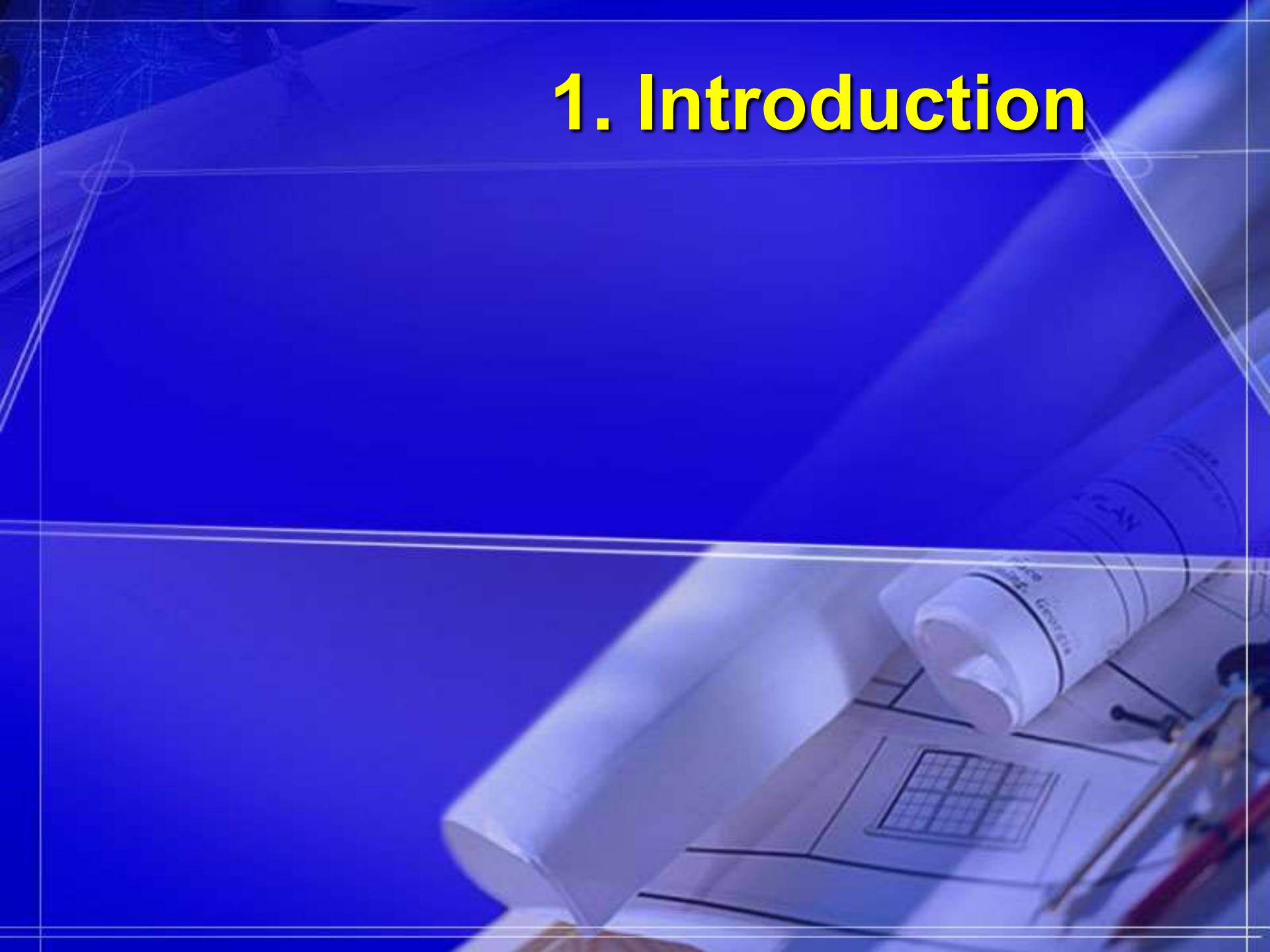
The UN-ECLAC Methodology For Assessment of Damage, Losses and Needs

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Earthquakes in HP

SN	Year	Richter	Location
1	1905	8.0	Karari Dal(Distt.Kangra)
2	1906	7.0	Near Karshing (Distt.Kullu)
3	1945	6.5	Minu (Chmaba Distt.)
4	1947	6.2	Minu (Chmaba Distt.)
5	1951	6.4	East of Dhan Kanda , District Chamba
6	1975	6.7	Distt. Kinnaur

1. Introduction



Typical Post-Disaster Stages and Activities



**Emergency
Stage**

**Humanitarian
Assistance**

**Recovery
Stage**

**Rehabilitation of
Essential Services,
Livelihoods
and Production**

**Reconstruction
Stage**

**Rebuilding
Destroyed Physical
Assets**

Division of Labor

United Nations World Bank and others

**Humanitarian
Assistance &
Early Recovery**

**Recovery &
Reconstruction**

Methodologies for Needs Assessment

**Humanitarian
and Early Recovery**

**UN and Other
Methodologies**

**Recovery and
Reconstruction**

**Damage and Loss
Assessment Methodology**

Summary of Assessment Process

Damage + Losses

- Sector by Sector
- Aggregation of Total Effects

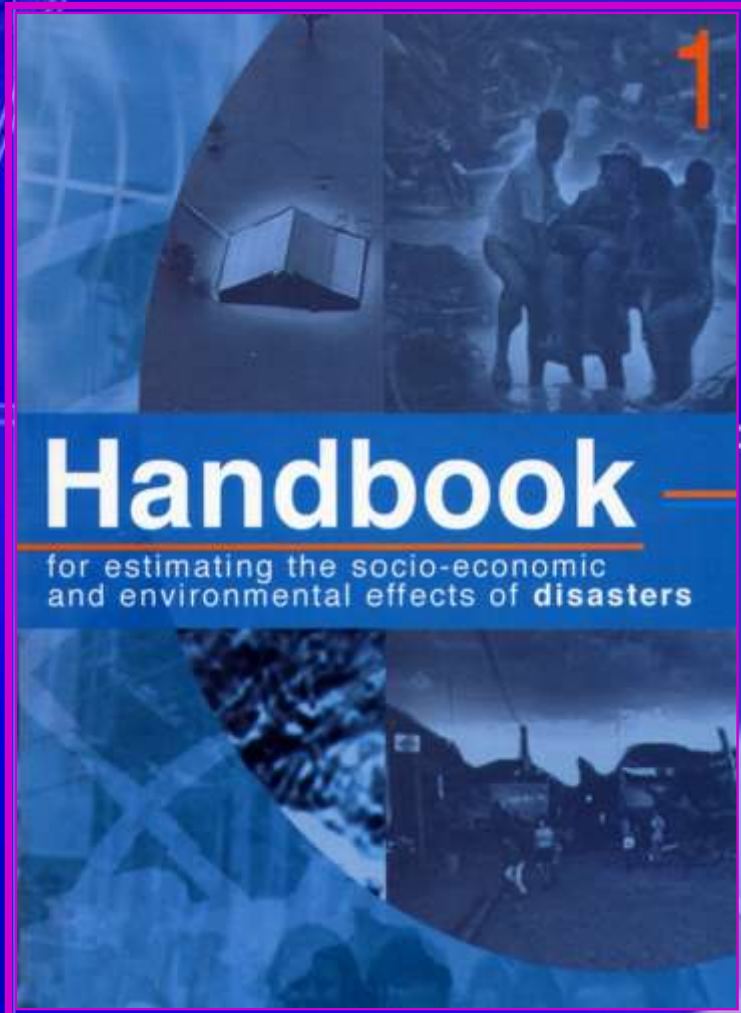
Impact Assessment

- Macro-economic
- Personal/Household

Estimation of Needs

- Recovery
- Reconstruction
- Risk Management

2. Conceptual Framework



Definitions of Disaster Effects

Immediate Effects

Damage

Total or partial destruction of physical assets
Occur during the event itself
Measured in physical units and valued at replacement cost

Medium-Term Effects

Losses

Changes in economic flows
Occur after the natural event, and over a relatively long time period
Valued at current prices

Total Effects : Damage + Losses

Typical Damage and Losses

Damage

Housing and household goods

Hospital and schools, and contents

Agriculture lands and irrigation systems

Roads and bridges

Ports and airports

Water supply systems

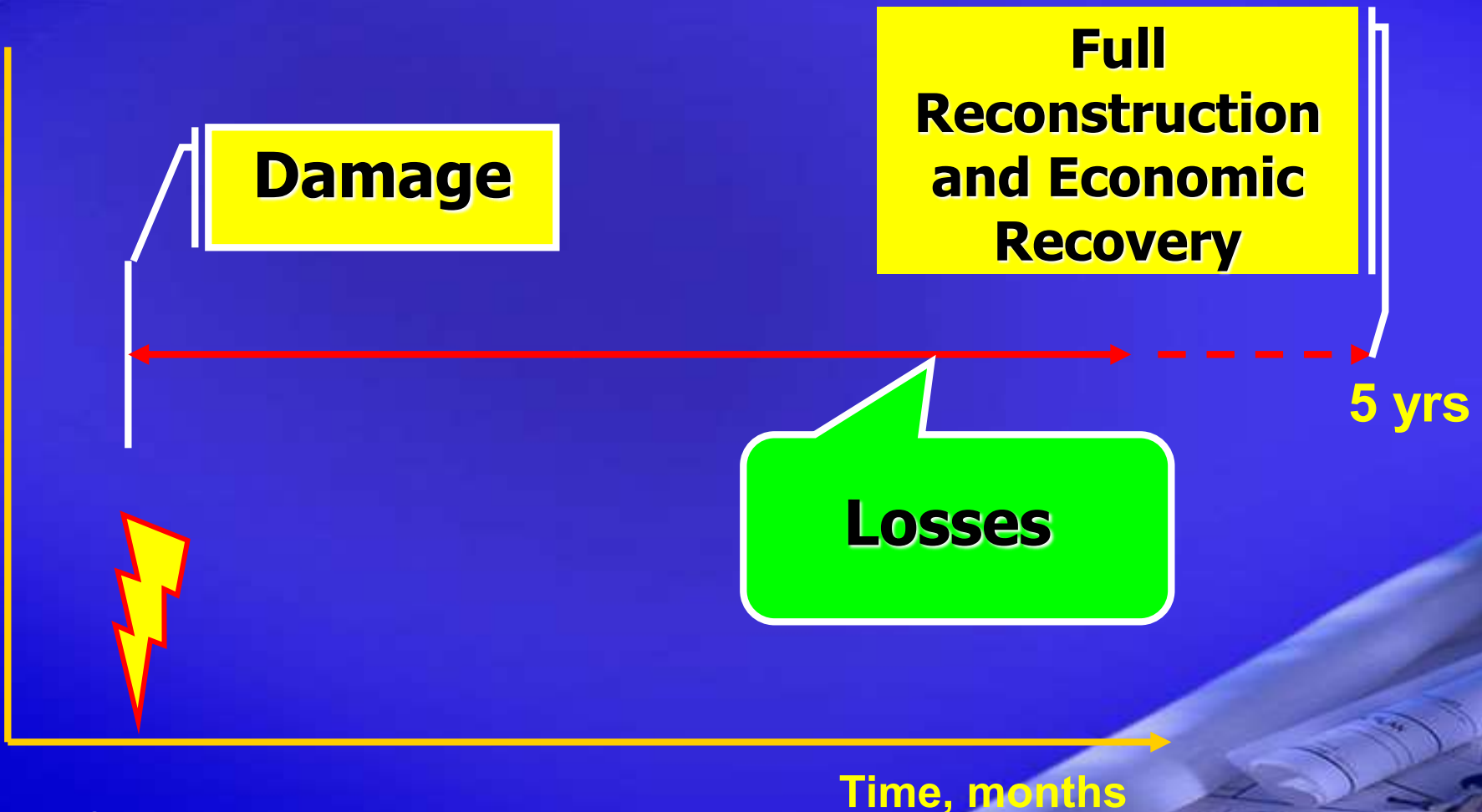
Electrical systems

Losses

Production losses in agriculture, fishery, livestock, industry, commerce, tourism

Higher operational costs and lower revenues in electricity, water supply and transport

The Timing of Disaster Effects



3. Why Do We Need an Assessment?



Objectives of Assessment

1. To obtain a quantitative estimation of the value of destruction or damage to assets and of changes or losses in economic flows due to the disaster
2. To identify the impact of the disaster on the overall functioning or performance of the economy of the affected country or area, and also on individual persons or on households

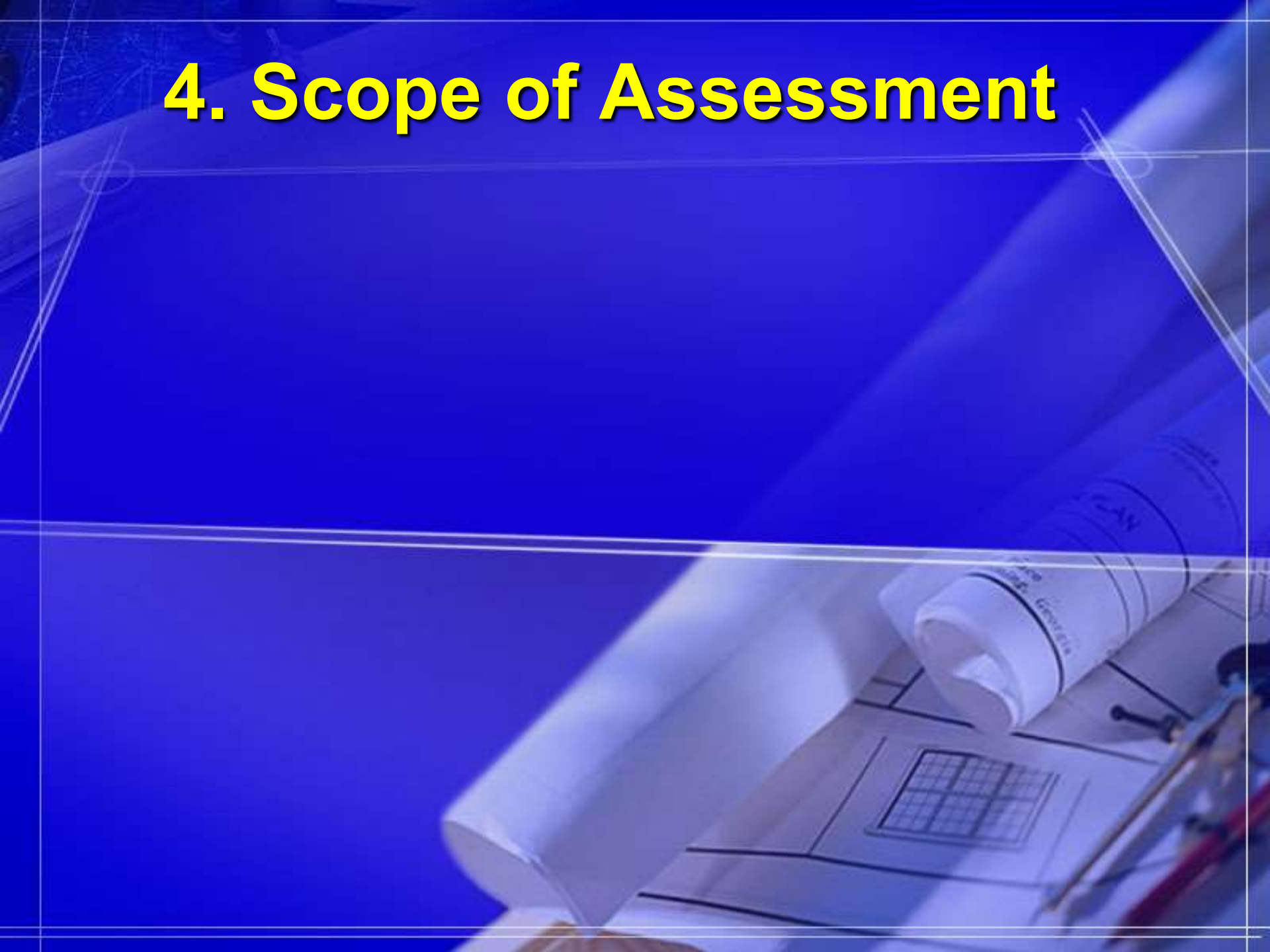
Objectives of Assessment..

3. To identify the capacity of the State to undertake on its own all recovery, reconstruction, and disaster risk management programs and activities
4. To ascertain whether international assistance should be provided, its scope and timeframe
5. To identify specific public sector actions at the State or lower levels to be undertaken in the short, medium and long term to ensure recovery and reconstruction

Objectives of Assessment...

6. To estimate financial, technical and human resource requirements or needs to implement the agreed upon programs of recovery, reconstruction and risk management, duly broken down into actions at the Central, State, Provincial, District or Community levels

4. Scope of Assessment



List of Typical Sectors

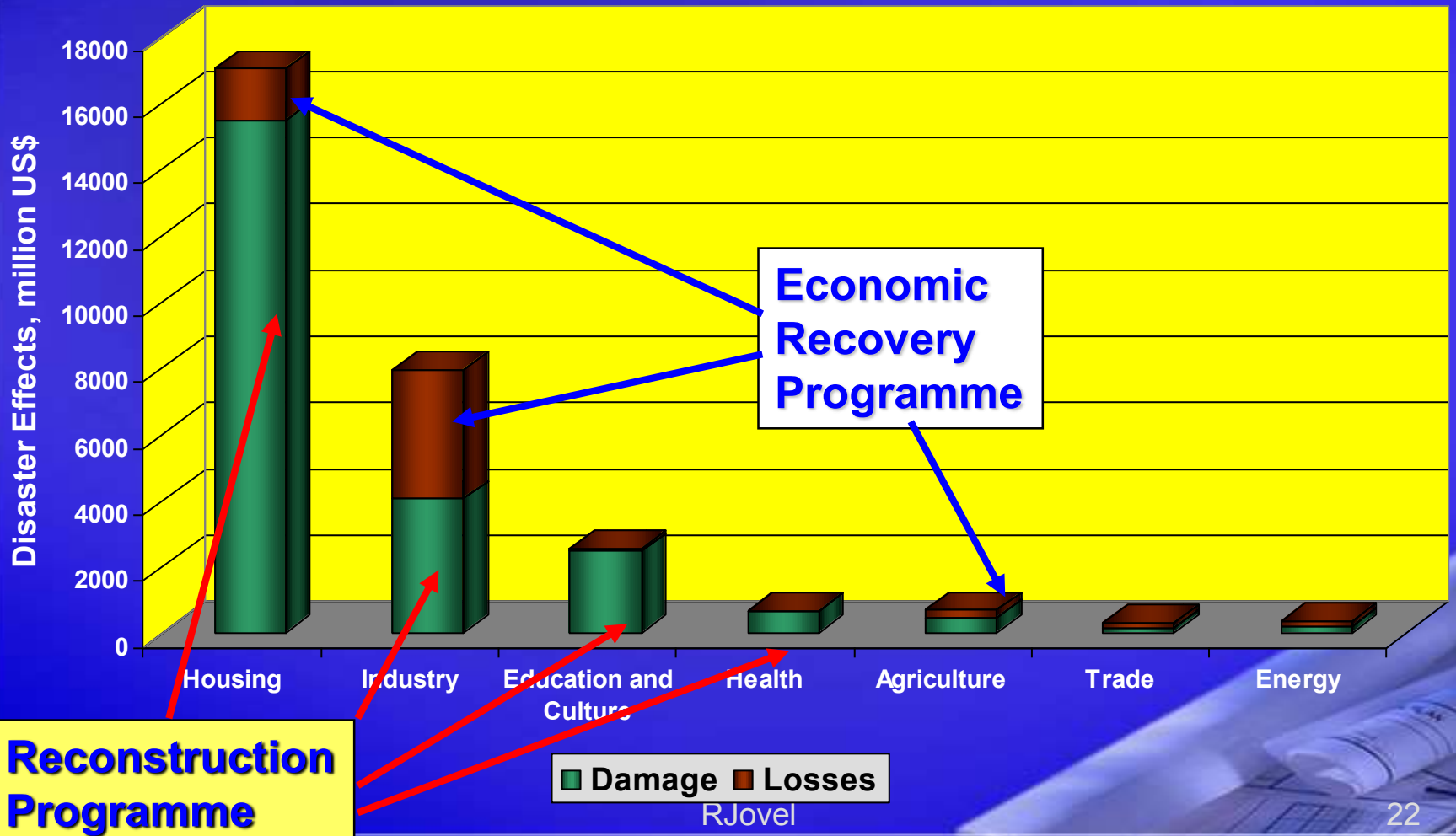
Republic of Macedonia	
Sector of Economic Activity	
1	Agriculture, hunting and forestry
2	Fishing
3	Mining and quarrying
4	Manufacturing
5	Electricity, gas and water supply
6	Construction
7	Wholesale and retail trade
8	Hotels and restaurants
9	Transport, storage and communications
10	Financial intermediation
11	Real estate, renting and business activities
12	Public administration and <u>defence</u>
13	Education
14	Health and social work
15	Other community, social and personal services

Typical Estimation of Needs

Recovery
Reconstruction
Risk Management



Use of Sector Analysis



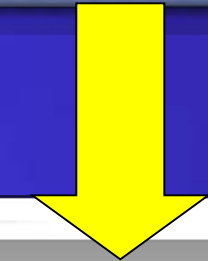
Recovery Needs Assessment



Recovery needs: f Production Losses

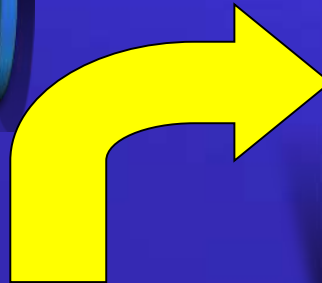
Reconstruction Needs

Damage



Reconstruction Strategy

Quality/Techno Improvement
Mitigation Costs
Relocation Costs
Multi-Annual Inflation



Reconstruction Programme

Financing Needs

Reconstruction priorities:

- Sectorial
- Geographical
- Population groups



Financing Formula

- **Government funds**
- **Private sector funds**
- **Insurance proceeds**
- **International grants**
- **International loans**

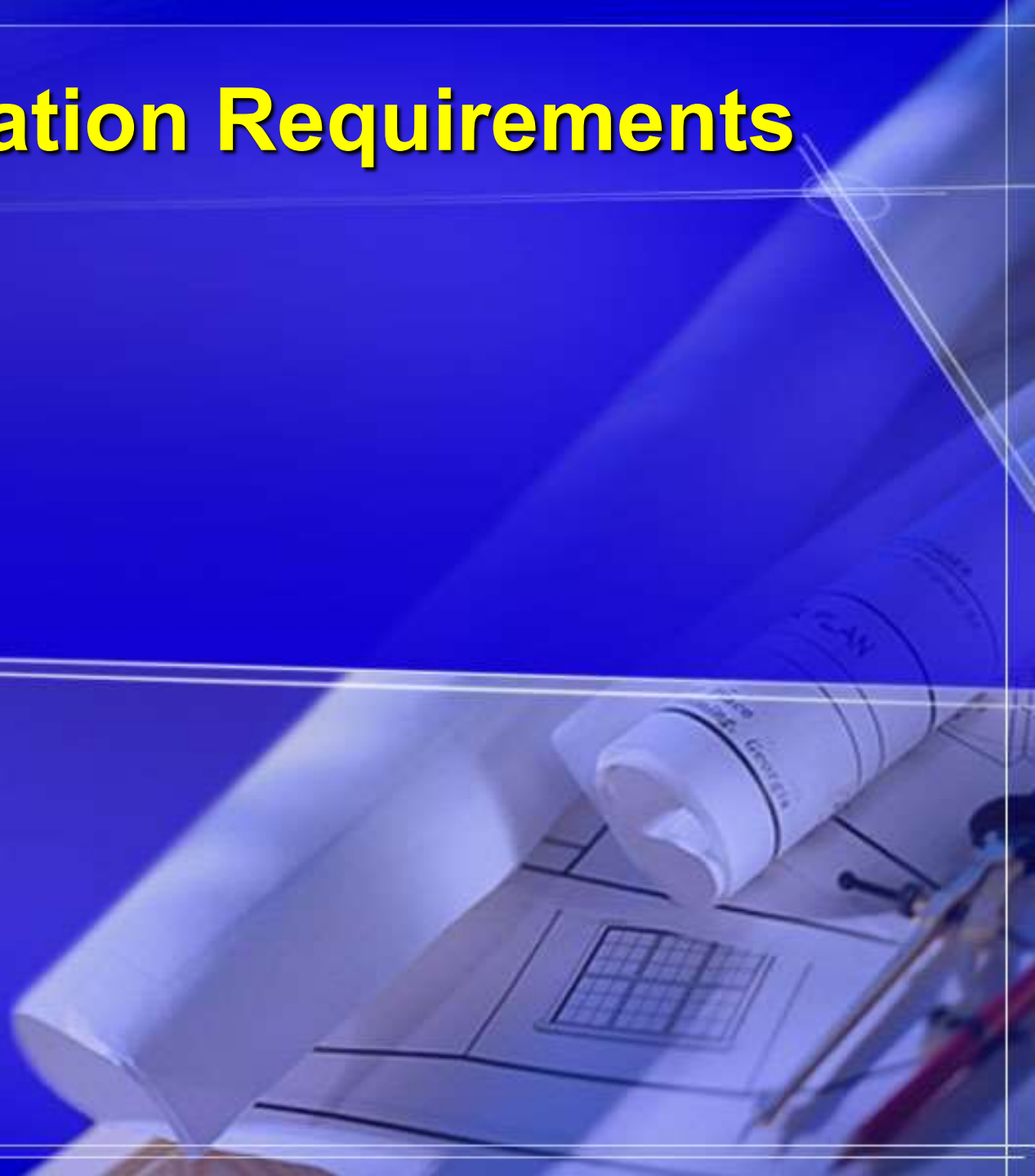
Typical Schedule

Activities	Months/Weeks	
	Month 1	Month 2
Emergency Stage	XX	
Damage and Loss Assessment		
- Training on Damage and Loss Assessment	X	
- Baseline data collection	X	
- Field survey for primary data collection in affected area	X	
- Extrapolation of results to entire affected area	X	
- Sector-by-Sector assessment	X	
- Recapitulation of damage and losses		X
Disaster Impact Analysis		
- Macro-economic impact analysis		XX
- Analysis of disaster impact at personal or household level		X
Estimation of Recovery and Reconstruction Needs		X
Final Report Writing		X

List of Specialists

Sectors	Sub-Sectors	Discipline or Profession Required	
		Essential	Desirable
Productive Sectors			
	Agriculture, livestock, fishery	Agronomist	Agriculture extensionist
		Agriculture economist	Fishery biologist
		Fishery economist	Veterinarian
		Livestock economist	Food balance/security specialist
	Industry	Industrial engineer	
		Industrial economist	
	Commerce and Trade	Trade economist	
	Mining and quarrying	Civil engineer	
		Mining economist	
	Tourism	Civil engineer	
Tourism economist			
Social Sectors			
	Education	Sociologist	
	Health	Civil engineer	Public health specialist
		Medical doctor	Nutrition specialist
		Epidemiologist	
	Housing	Architect	Urban planner
Civil engineer			

8. Information Requirements



Baseline Data, general

Most recent population census

Most recent household survey

Annual production statistics

Production forecasts

Annual reports for utilities

Annual economic and social surveys

Other economic and financial reports

Baseline Data, by Sector

Sector	Information Required
	Productive
Agriculture	<ul style="list-style-type: none"> Calendar of production activities Cropped area for different products (Seasonal, annual or permanent crops) Production volume for each crop Unit prices for each crop (at farmgate, wholesale and retail levels) Expected unit yields for all crops Forecasted volume of production
Livestock	<ul style="list-style-type: none"> Animal stock Unit prices paid to owners for animals Production, annual or monthly value (milk, cheese, eggs, etc) Prices paid to producers
Fishery	<ul style="list-style-type: none"> Boats and nets (number and capacity) Monthly catch (in volume or weight) Prices paid to fishermen
Commerce	<ul style="list-style-type: none"> Most recent commerce census or survey Time series of commerce and trade volume and prices Information on small and medium enterprises Gross domestic product, by commerce categories Periodic surveys carried out by trade and industry ministries or by central banks
Industry	<ul style="list-style-type: none"> The most recent industrial census Time series of industrial production and prices Data on small and medium enterprises Gross domestic product, by branches and activity
Tourism	<ul style="list-style-type: none"> Most recent survey on tourism sector Time series of tourist arrivals, seasonality, and income Average length of stay and expenditures Gross domestic product for tourism and subsectors Static baseline on assets

