



Presented by Scott Powell, PE
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eMi Disaster Response

*“God is our refuge and strength,
an ever-present help in trouble.
Therefore we will not fear, though
the earth give way and the
mountains fall into the heart of
the sea, though its waters roar
and foam and the mountains
quake with their surging.”*

– Psalm 46:1-2



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Developing World Disasters

International disasters demand a different response than international development or domestic crises.

eMi is striving to meet critical needs in desperate times quicker, more effectively, and more appropriately.



What's not new

- Serving the poor
- Mobilizing design professionals for short-term project teams
- Defined-scope projects

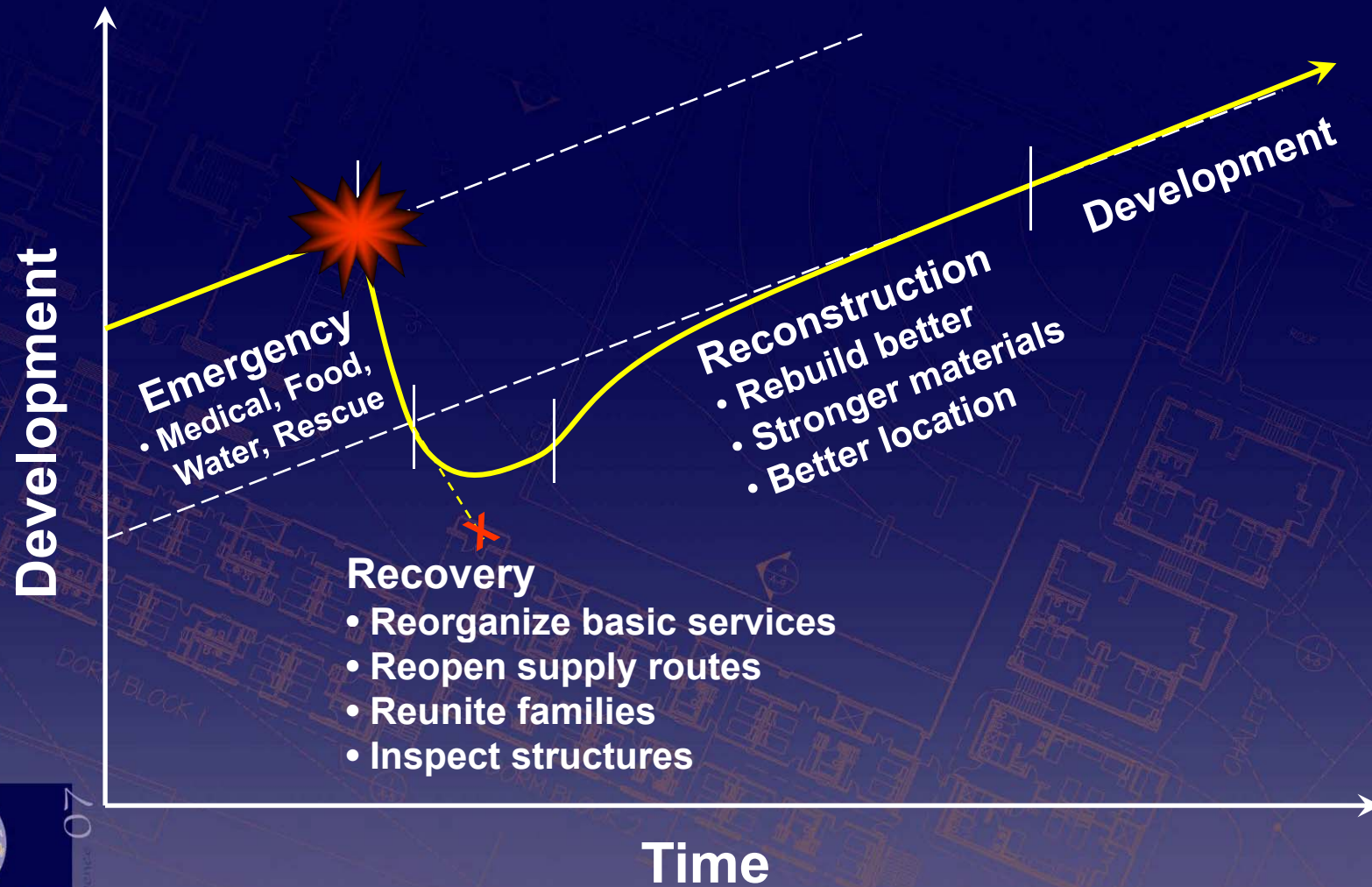


What's new

- Crunched timeline: 1-2 weeks vs. 3-6 months
- Pre-established relationships and framework agreements with ministries
- Pre-selected, trained, and equipped volunteers
- Assessment teams
- Design/build infrastructure projects



The Ellingson Curve



Four Types of Disaster Aid



Risk and Response

- Capability
- ◻ Priority

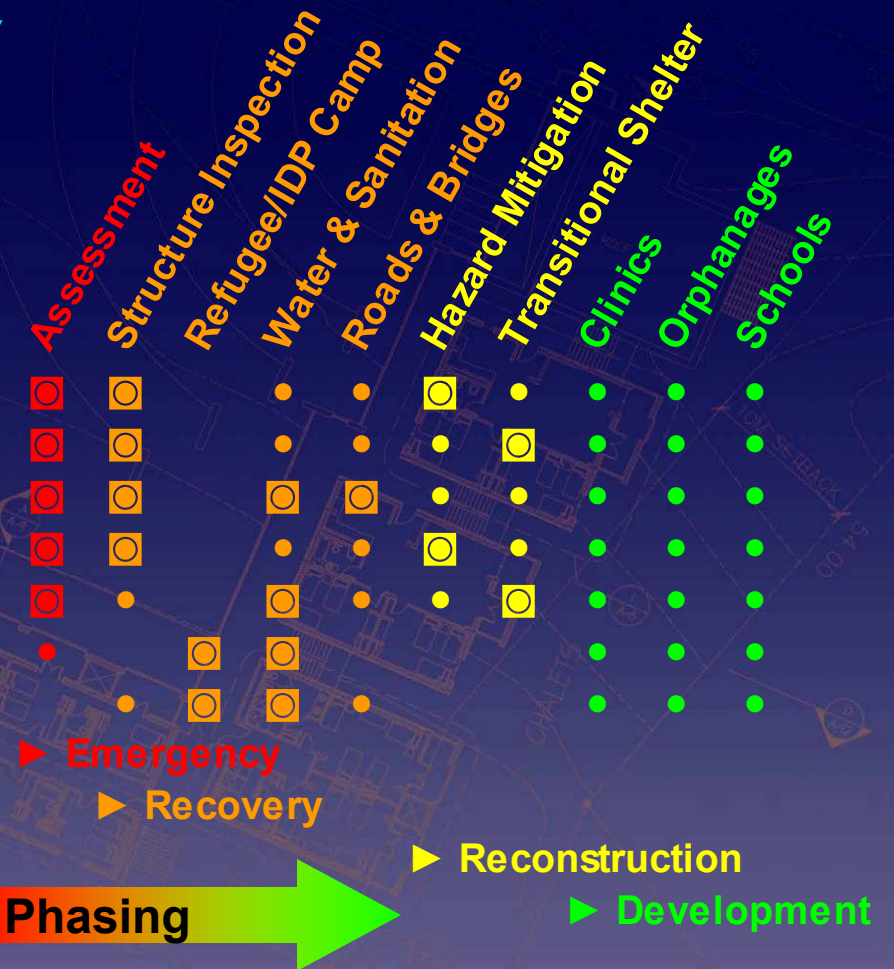


Disaster

	*Central America	South America	West Africa	*East Africa	N. Africa & Mid-East	Russia & Cen Asia	*Indian subcontinent	China, NK, Mongolia	Pacific Rim
Flood	L	L	M	M	L	L	H	M	H
Tsunami	M	L	L	L	L	L	H	L	H
Earthquake	M	H	L	L	M	H	H	M	H
Hurricane	H	L	L	L	L	L	H	L	H
Mudslide	H	H	L	L	L	L	L	H	H
Famine	L	L	H	H	H	M	M	H	M
War	L	L	H	M	H	M	M	M	L

RISK

eMi's Response



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eMi's Approach

1. Identify ministry partners
2. Identify volunteers



25
years
of
experience

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eMi's Approach - Ministries

1. Identify ministry partners

- Evangelical ministries targeted towards disaster relief
- Network & establish relationships
- Establish MOUs if appropriate



eMi's Approach - Volunteers

2. Identify volunteers: nomination-driven

- Spiritually mature, mentally flexible & physically fit
- Willing to receive training & seek short-notice availability
- Technically qualified
- Interested in DR



Disaster Response Teams

1. Assessment Teams

- 1-2 day notification

2. Rapid Response Design Teams

- 1-2 week notification



Assessment Teams

- 1-2 day notification
- Goals
 - Assess damage and need
 - *Report* unmet needs
 - *Coordinate* for follow-on design teams
- Characteristics
 - Self-sustaining
 - 2-3 "generalist" engineers



Rapid Response Design Teams

- 1-2 week notification
- Goals
 - Focus on *infrastructure*
 - *Design-build*
- Characteristics
 - Team tailored to project
 - 2-8 engineers (SE, CE, EE, etc.)
 - Construction experience



Disaster Response Timeline

- See diagram

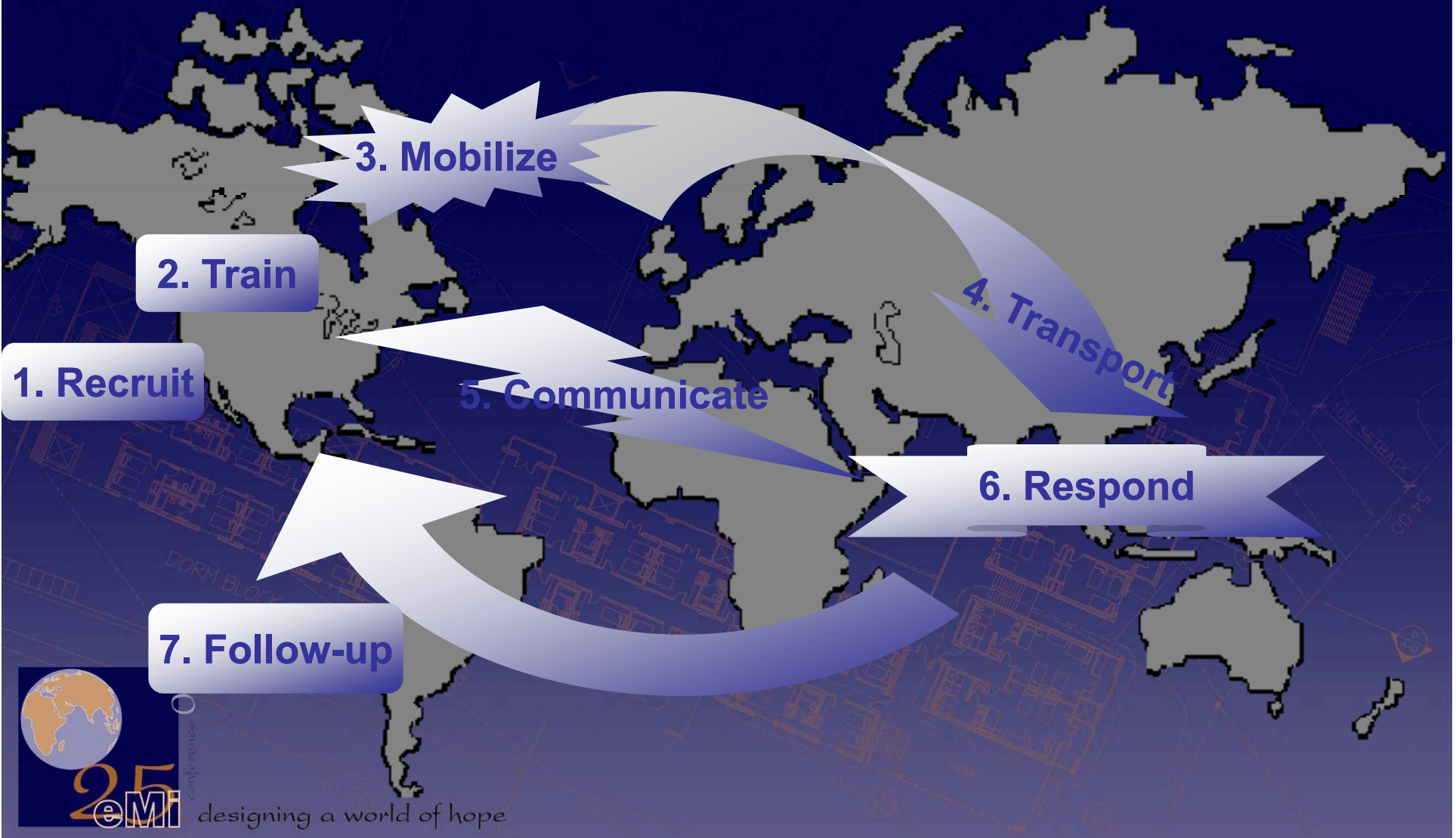


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Response Outline



Needs Identification

eMi World HQ
Disaster Response
Coordinator

**World Zone
Office**

Ministry HQ

Ministry

Needs

Identify needs

Needs

Identify needs



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Support and Coordination

eMi World HQ
Disaster Response
Coordinator

**World Zone
Office**

Ministry HQ

Logistics, Coordination support

Design support

Transportation support

**Disaster
Response Team**

Ministry

Life support



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eMi Disaster Response

In short, eMi wants to meet **critical engineering design needs** in a disaster situation **quicker, more effectively**, and **more appropriately** in coordination and collaboration with other evangelical ministries.



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"The PowerPoint presentation is great but could I get a hard copy of the Ten Commandments?"

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Questions?



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