Total-Quality-Management-Based Assessment of Everyday Life Recovery Assistance Programs for Victims of the 1995 Kobe Earthquake

25th Annual Hazards Research and Applications
Workshop

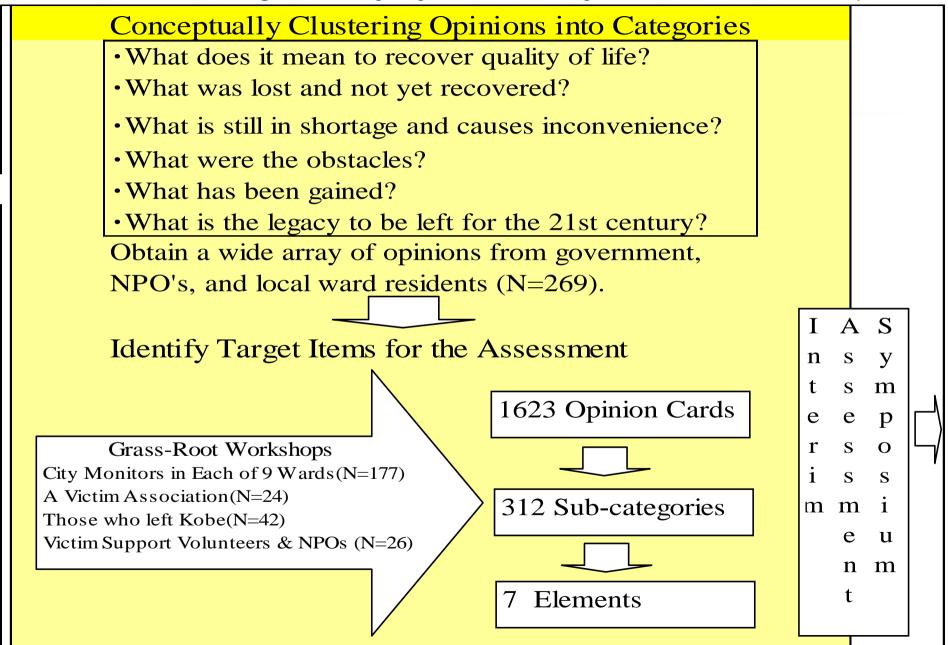
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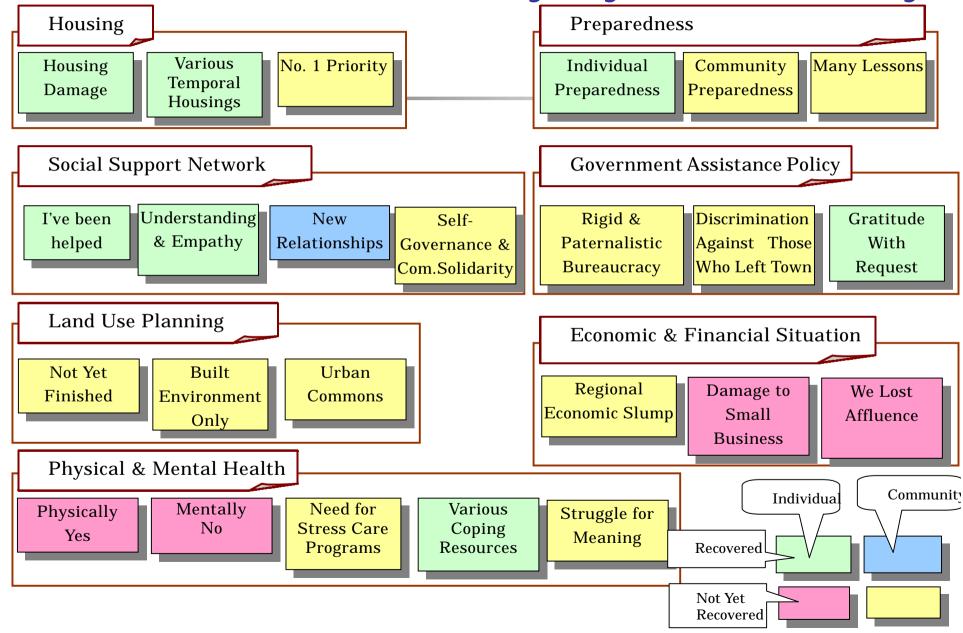
The Flow of a TQM-Based Assessment of Everyday Life Recovery

- 1. Explore the meanings of recovery of everyday life and classify them into categories and elements.
 - → Grass-root workshops (Affinity Diagram)
 - → Validation of life recovery elements priorities (Survey)
- 2. Identify causal relations among affinity elements
 - → Draw cause-effect arrows (Relation Diagram)
- 3. Identify concrete means to attain goals
 - → Prioritize actions (Tree Diagram)

1) Define the Meanings of Everyday Life Recovery: Grass-Root Workshop



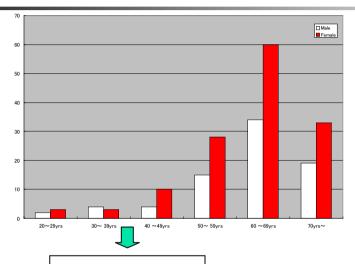
Seven Elements for Everyday Life Recovery



Validation of Priorities among Seven Elements



Age Distribution of Kobe Grass Roots Workshop Participants (N=269) "Determinants of the Changes of Residence and Life Reconstruction" Survey Opinion Provider Age Distributions



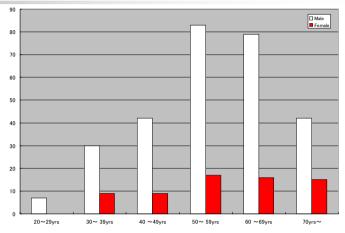
Biased Sample!



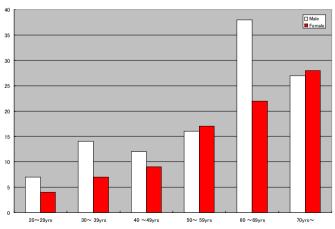
Use of "Determinants of the Changes of Residence and Life Reconstruction" Survey (Tatsuki & Hayashi, 1999, in press) free format opinion data



Coding free format opinions expressed in the questionnaire using the 312 life recovery categories and then classify them into one of seven life recovery elements

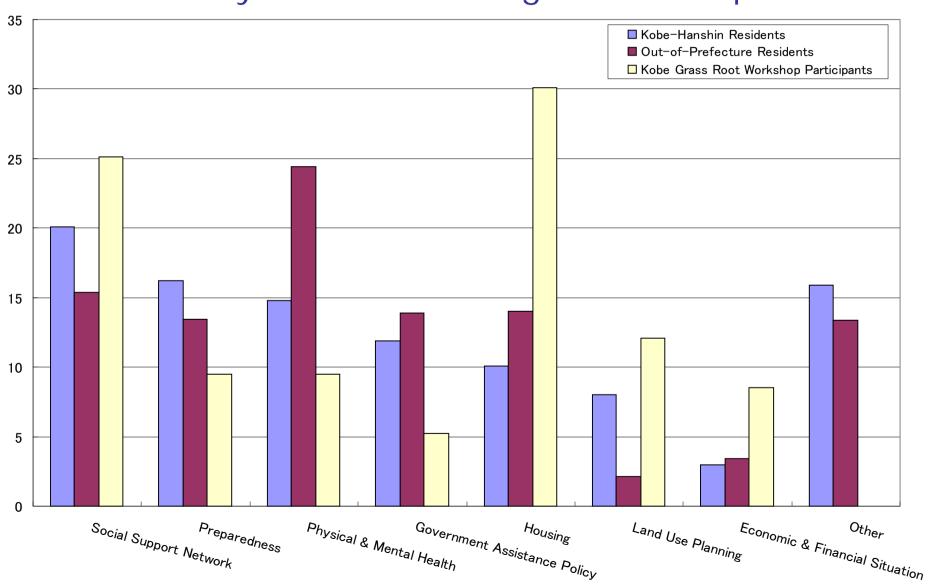


Kobe-Hanshin Residents (N=350)



Out-Of-Prefecture Residents (N=201)

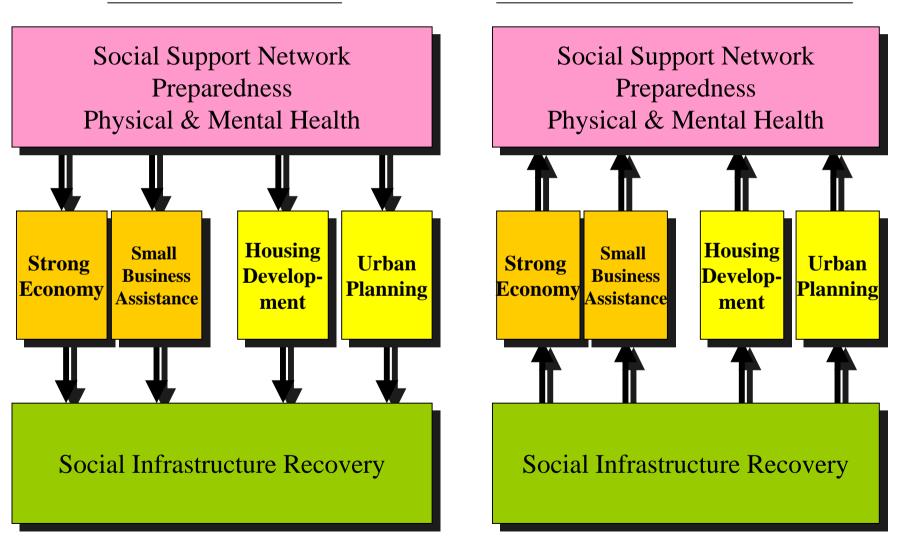
Percentage of Opinion Cards for Everyday Life Recovery Elements among Three Samples



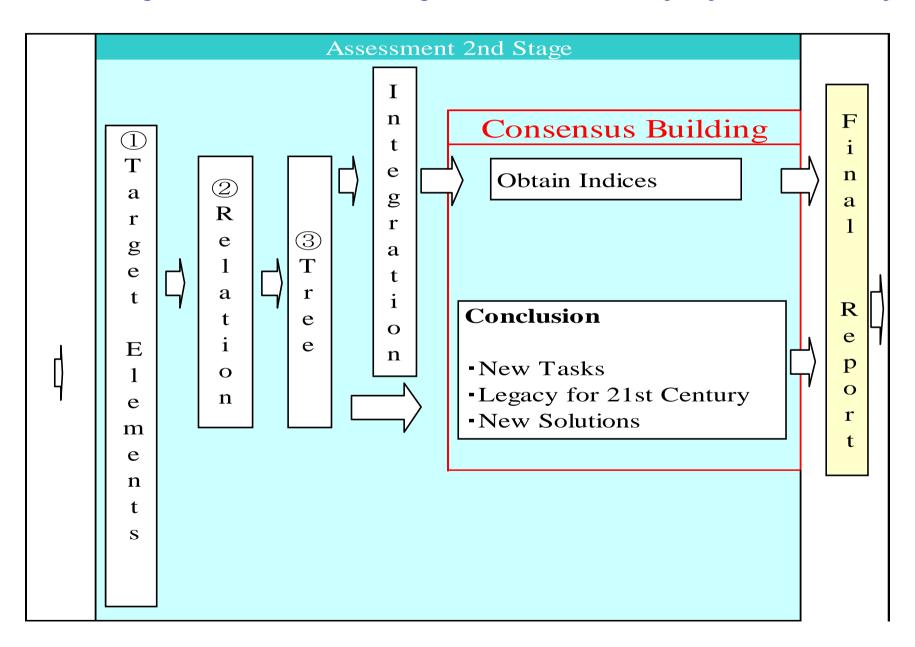
Two Conflicting Valuations on Everyday Life Recovery

<< Valuation of Citizens>>

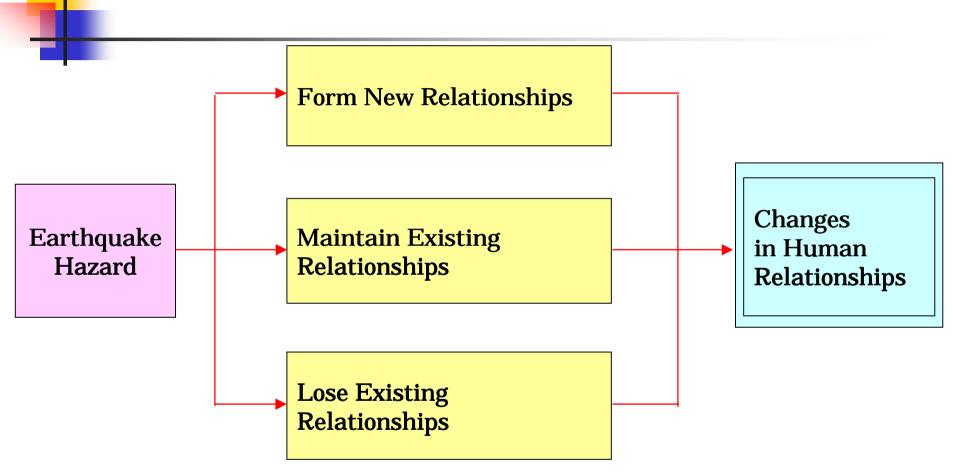
<< Valuation of Local Governments>>



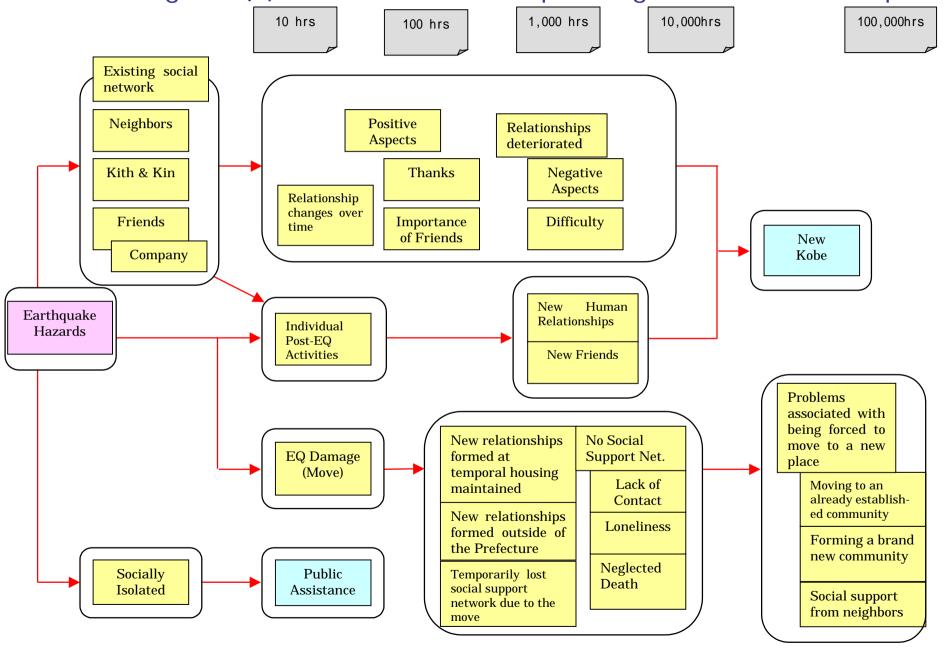
2) Defining Goals & 3) Prioritizing Measures for Everyday Life Recovery



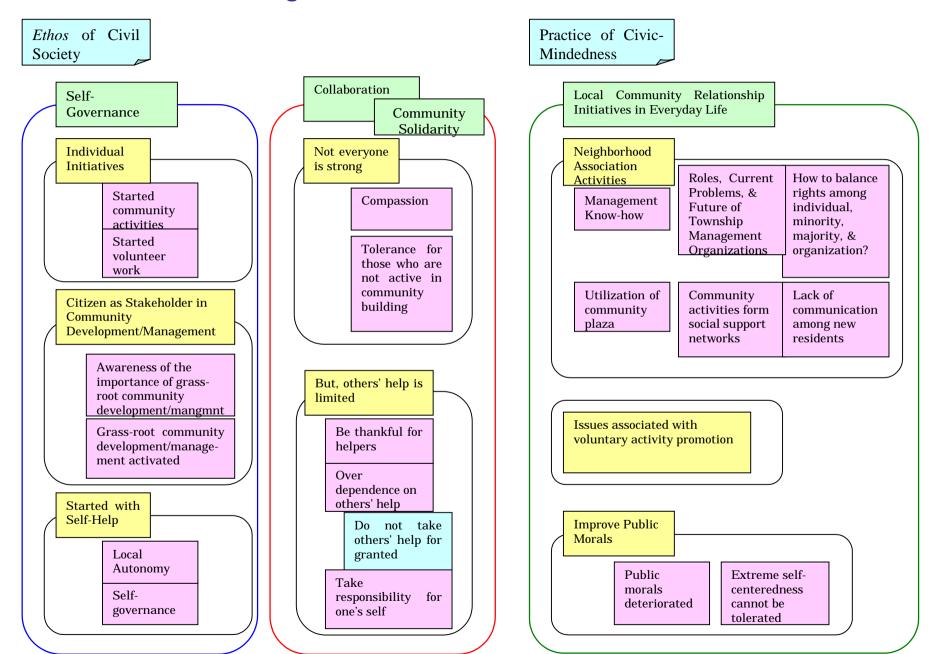
Relation Diagram for Social Support Network (1)



Relation Diagram (2): Human Relationship Changes after the Earthquake



Relation Diagram (3): To Create a New Kobe...



Tree Diagram on Government Assistance Policy 3) Government Assistance Policy

From Citizens' Viewpoints			Assessement Panel Evaluation (⊚. O. Δ. ?)			Programs (Examples of Current Programs)
Long Term Goal	Mid-Range Goal	Means	Feasible Cost	Cost	Expected	
			?		Outcome	
	Recognize citizen diversity	Respond to individual needs	\triangle	\triangle	©	公営住宅の個別あっせんの実施
						神戸 支 (メンタルケア相談等)
		(What citizens demand is very		y)		阪神·淡路大震災復興基金設立
				1 .		
		Individualized and prompt response	0		0	被災市民相談の実施
						市外避難者の悩みごと電話相談
		(Local government alone cannot handle. Collaboration is needed with Resident Associations and NPO's)				神戸市入居促進センターの開設
						防災計画
						まちづくり情報バンクの整備
						住宅再建相談所の運営支援
						総合住宅相談所の運営
						宅地相談コーナー
						雇用情報コーナーの運営
						コミュニティ相談センターの運営
	Fill the gap of policy programs	Close ties with different	0	\triangle	0	生活再建本部の設置
		departments				各区連絡会
		(Collaboration Initiatives are necessary)				各種プロジェクト
		Think of all possible	\triangle	\triangle	0	防災計画
		contingencies				各種計画
		(Utilize past lessons)	·			
					_	
		Use of volunteer	0	0	0	区ボランティアセンターの設置
		workers				災害復興ボランティア活動補助
		(Need to coordinate diffe	erent roles)			市民活動支援