

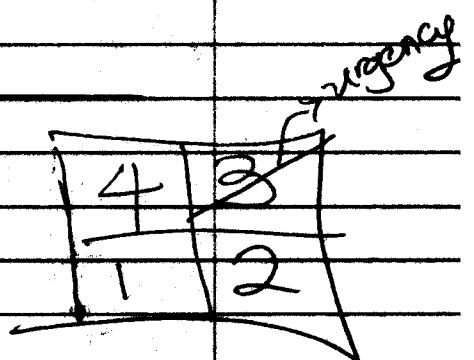
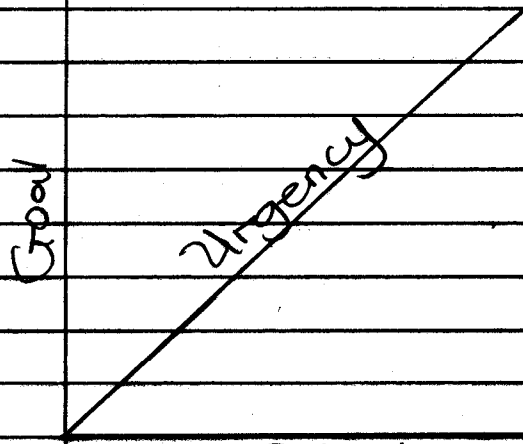
GEJUNAMA 3D MODEL

Scheme

- Goal → Clear, Unclear	Not clear	1	3
- Solution → Clear, Unclear	clear	1	2
- Urgency → Yes, No	clear	1	2

clean Not clear
Solution

Whysoki Quadrant:	Goal	Solution	Urgency	Method
1	Clear	Clear	Yes	Waterfall
1	Clear	Clear	No	Waterfall
2	Clear	Unclear	Yes	Stage Delivery Waterfall
2	Clear	Unclear	No	Adoptive Software dev
3	Unclear	Unclear	Yes	
3	Unclear	Unclear	No	INSPIRE
4	Unclear	Clear	Yes	Dump!
4	Unclear	Clear	No	Dump!



Team DAM
 Maya Kosasih
 Kevin Krogsrud
 Michael Soldwisch
 Jacqueline Velásquez

MIS 260 Midterm #1
 Spring 2007
 Dr. Leonardo Legorreta

Discombobulation Assignment Method

The Discombobulation Assignment Method (DAM) model attempts to determine the formality of software development methodologies using three factors: Criticality, Complexity and Urgency.

Formality can be expressed in the following equation:

$$\text{Formality} = \text{Criticality} + \text{Complexity} - \text{Urgency}$$

The basic premise is the higher score the more formal software method is suggested. Each factor is ranked on a scale (see tables below for ranking scale and factor determinants) and plugged into the equation.

Ranking Scale	
3	High
2	Medium
1	Low

Criticality What do we have to lose?	
3	Loss of Life; Loss of Business
2	Loss of Production; Loss of Value
1	Loss of Discretionary Money

Complexity How complex is it?	
3	Large Scope, Large Amount of People Required
2	Medium Scope, Medium Size
1	Small Scope, Few People Required

Urgency When does it have to be done?	
3	< 6 Months
2	6 Months to 12 Months
1	> 12 Months

Using the formality score, select the recommended methodology.

Formality Score Suggested Methodologies	
-1, 0	XP, Agile, Crystal
1, 2	UML, RUP, Responsibility Driven Design
3, 4	RAD, JAD, Spiral, Iterative
5	Waterfall, Linear

Team Number Two (TNT)

Three-Dimensional Model

Dimensions:

- Urgency – time dimension
- Clarity – combination of clear/unclear goals and known/unknown solutions
- Criticality – loss of money, customers, potential revenue, life, etc.

We have taken Wysoki's methodology definitions as the basis of the methodologies to be adopted based on the combination of the factors.

Different possible combinations:

Urgency	Clarity	Criticality	Suggested Methodology
T	T	T	Incremental (RAD)
T	T	F	Iterative (XP)
T	F	T	Extreme (XP)
T	F	F	DROP
F	T	T	Linear (Waterfall)
F	T	F	Linear (Waterfall)
F	F	T	Iterative (Liquid JAD)
F	F	F	Adaptive (JAD)

During our discussion on the best schema for methodologies, we came up with the conclusion that it is very hard to design a schema to satisfy ALL types of organizations. Moreover, the more general we tried to make the schema, less effective it was becoming. Based on each organization's type of work or services they are providing, the schema may change significantly. Each company should also set the importance/weight of each dimension in order to properly assess the most suitable methodology for each project.