

"Futurism is an art of reperception. It means recognizing that life will change, must change, and has changed, and it suggests how and why.

It shows that old perceptions have lost their validity, while new ones are possible."

Bruce Sterling

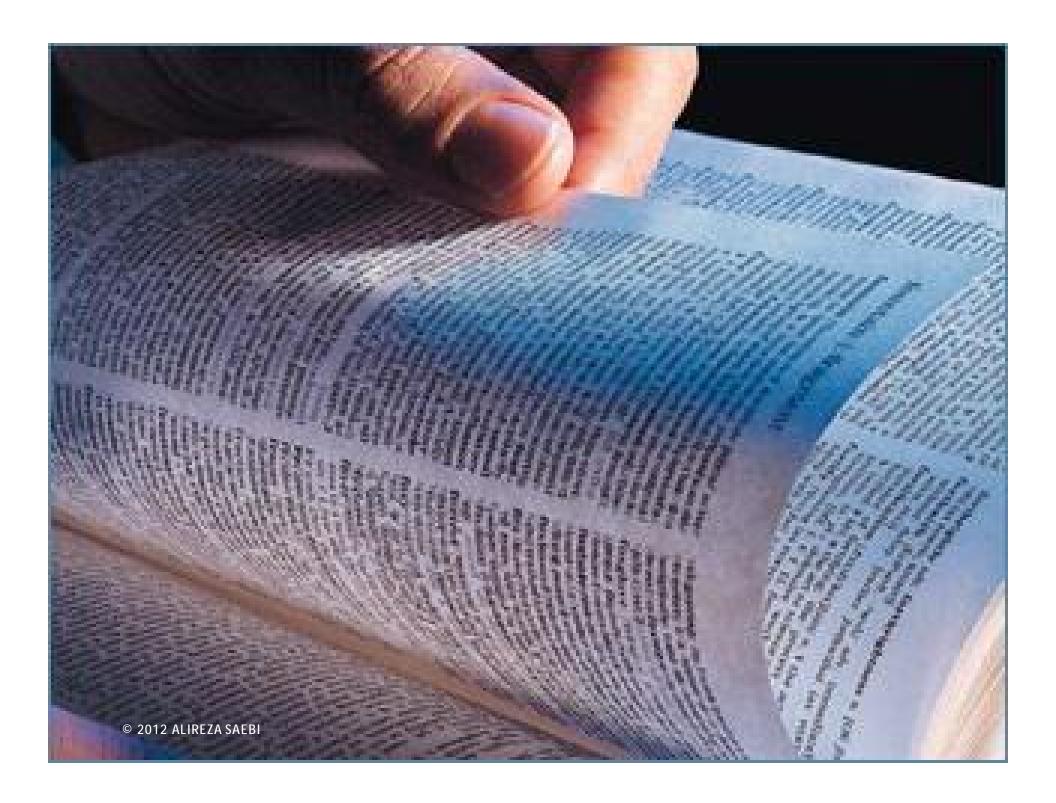


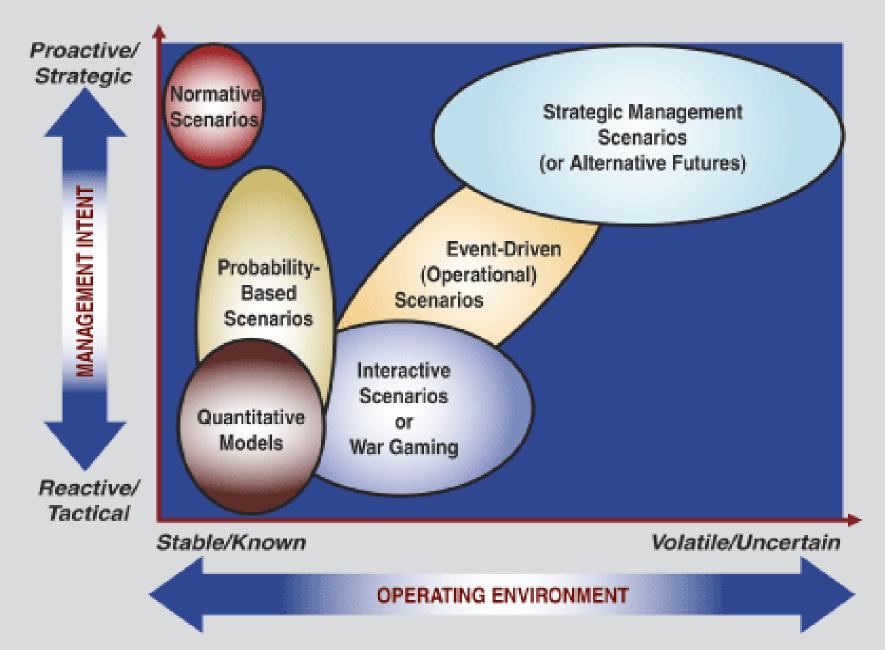
Scenario planning

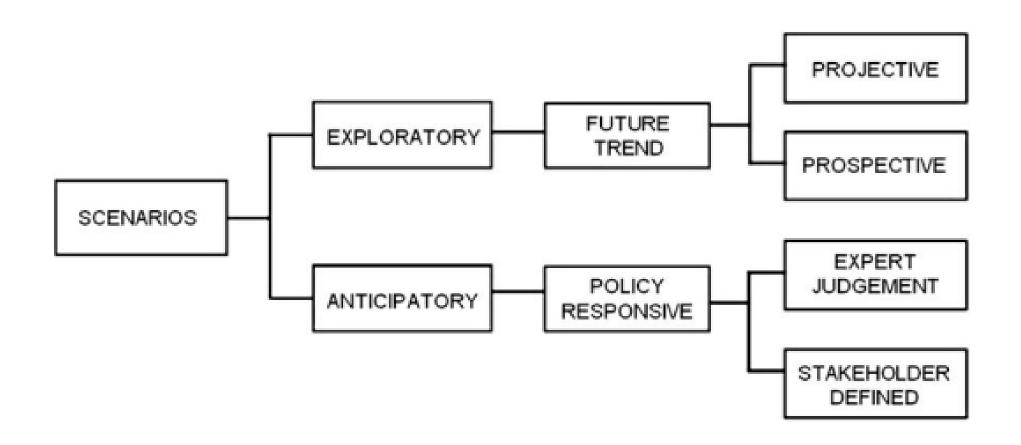
Scenario thinking

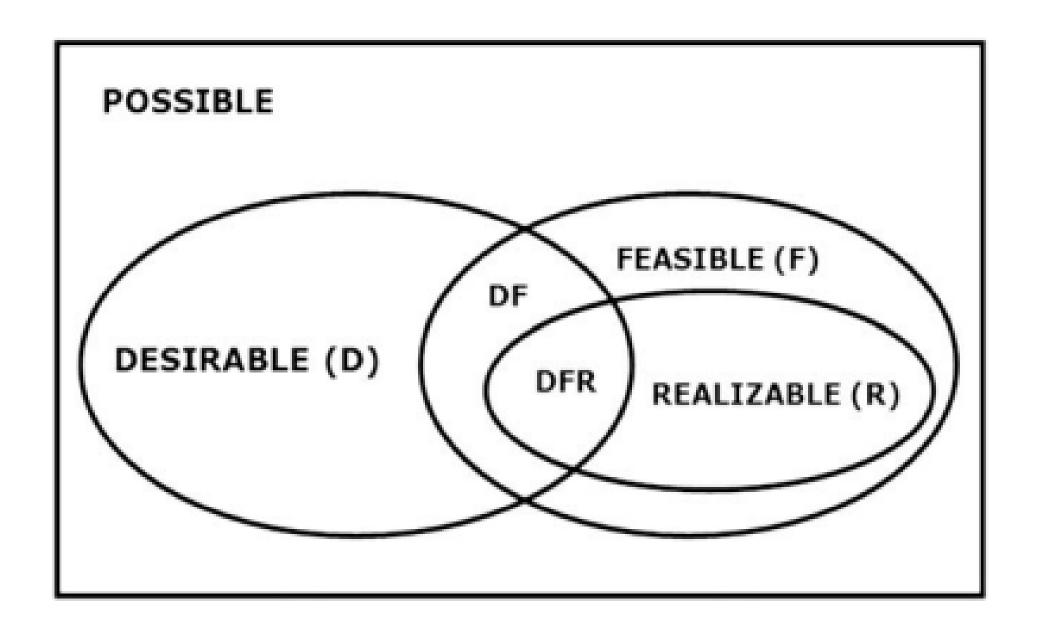
Scenarion analysis



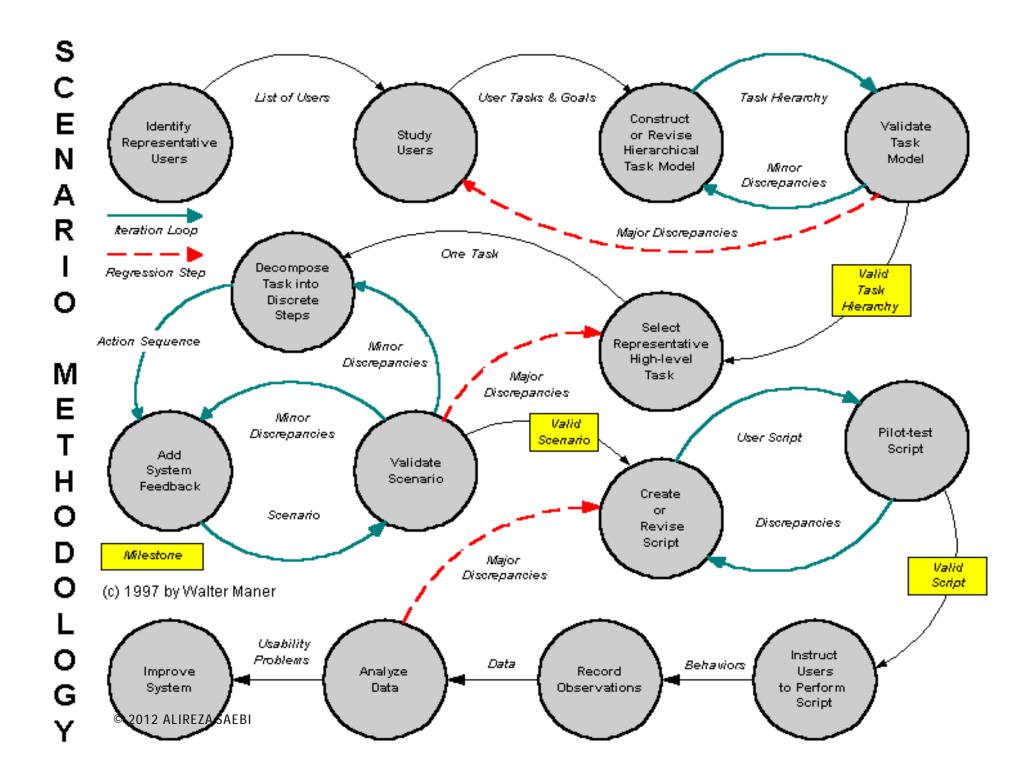


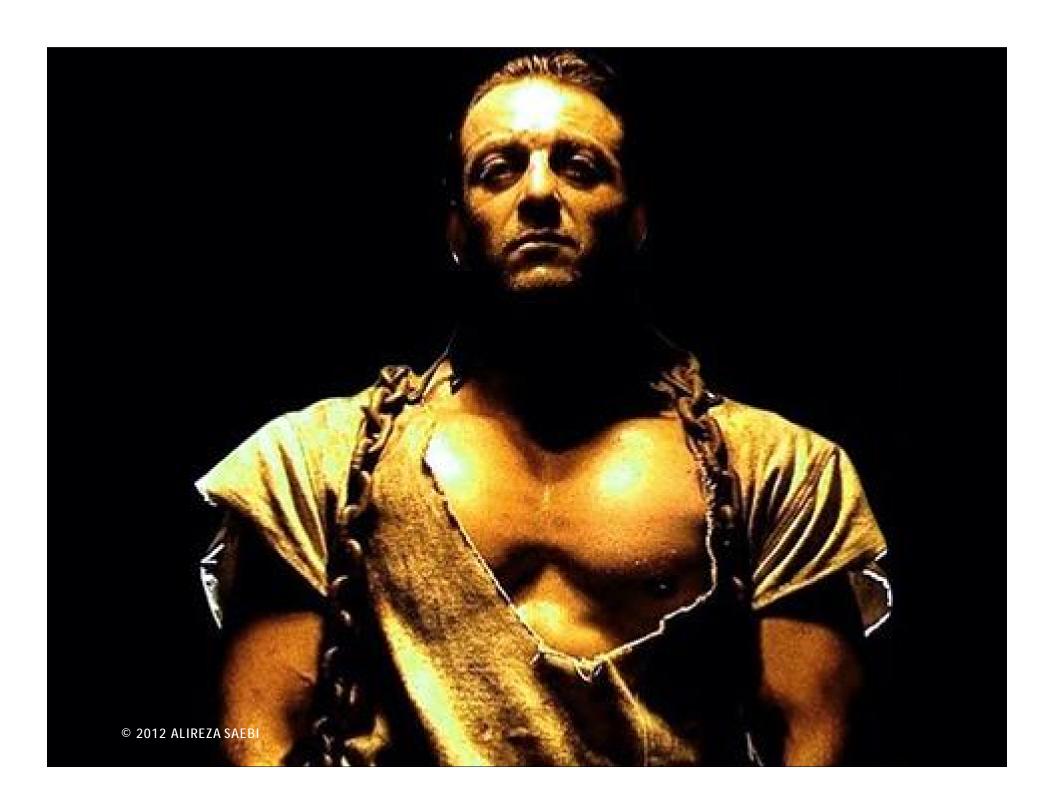














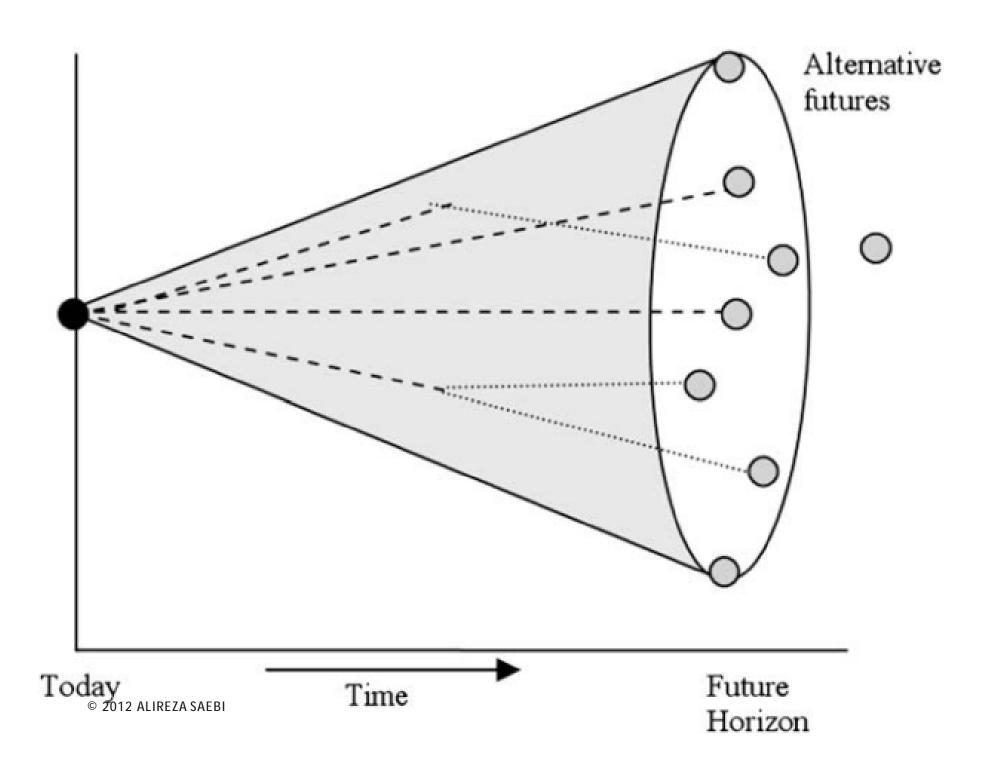
Scenario Definition

Scenario Construction

Scenario Analysis

Scenario Assessment

Risk Management



Specification of Market Expectations

Annah alama	Distribution	(End of)	(End of)	(End of)
Asset class	property	Period 1	Period 2	Period 3
Cash-duration three months	expected value of spot rate	4.33%	State dep	State dep
	standard deviation	0.94%	State dep	State dep
	skewness	0.80	0.80	0.80
	kurtosis	2.62	2.62	2.62
	worst-case event	6.68%	State dep	State dep
Bonds-duration six years	expected value spot rate	5.91%	State dep	State dep
	standard deviation	0.82%	State dep	State dep
	skewness	0.49	0.49	0.49
	kurtosis	2.39	2.39	2.39
	worst-case event	7.96%	State dep	State dep
Domestic stocks	expected value total return	7.61%	State dep	State dep
	standard deviation	13.38%	State dep	State dep
	skewness	-0.75	-0.75	-0.75
	kurtosis	2.93	2.93	2.93
	worst-case event	-25.84%	State dep	State dep
International stocks	expected value total return	8.09%	State dep	State dep
	standard deviation return	15.70%	State dep	State dep
	skewness	-0.74	-0.74	-0.74
	kurtosis	2.97	2.97	2.97
© 2012 ALIREZA SAEBI	worst-case event	-31.16%	State dep	State dep

Statistical Properties Derived from the Marginal Distributions

	Expected value (%)	Standard deviation (%)	Skewness	Kurtosis*	Worst-case event (%)
Cash	4.33	0.94	0.80	2.62	6.68
Bonds	5.91	0.82	0.49	2.39	7.96
Domestic stocks	7.61	13.38	-0.75	2.93	-25.84
International stocks	8.09	15.70	-0.74	2.97	-31.16

Specification of Correlations

·	Cash	Bonds	Domestic stocks	International stocks
Cash	1	0.60	-0.20	-0.10
Bonds		1	-0.30	-0.20
Domestic stocks			S. 1	0.60
International stocks © 2012 ALIREZA SAEBI				1

Stability in the Objective Function Value for Three Different Sets of Specifications

	E(x)	STD(x)	High(x)	Low(x)
Set 1: EV, STDEV, CORR	112.31	0.384	113.48	111.51
Set 2: EV, STDEV, SKEW, KURT, CORR	111.99	0.203	112.74	111.47
Set 3: EV, STDEV, SKEW, KURT, CORR and worst case outcomes	111.98	0.183	112.48	111.61

Stability in the Decision Variables

	Cash	Bonds	Domestic stocks	Foreign stocks
Average optimal portfolio	3.6	77.7	9.3	9.4
Standard deviation in optimal allocation	3.5	2.5	1.1	1.4



The Industry Attractiveness-Business Position Matrix





Variables that might be used to evaluate:

Company's / Brands Competitive Position

- Size
- Growth
- Relative S.O.M.
- Margins
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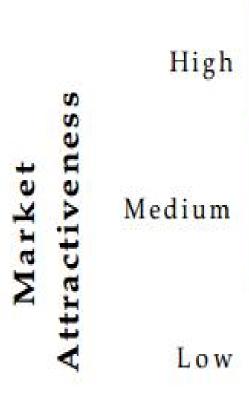
- Distribution
- Technology
- Marketing skills
- New Products
- Patents
- Consumer Customer S.O.M.
 - Access / Control of Supply

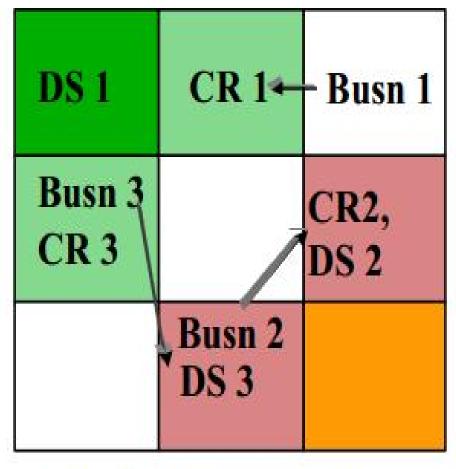
Industry Attractiveness

- Size
- · Growth Trend
- Margin levels / profitability
- Competitive intensity

- Profitability
- Technological sophistication
- Pace of technological change
- Government Regulations







Weak Medium Strong

Capabilities

