AHP -Pros and Cons -Practical Application ANP

-Pros and Cons -Setting up a network model

AHP or ANP?





Hierarchical Structuring of a decision problems











Analytic Hierarchy Process AHP

When using AHP: Try to structure the model in groups of max. 4-5 criteria or sub-criteria. If possible introduce additional hierarchical levels

b

а

Spend time to explain the use of the scale for pair wise comparisons to participants without knowledge of AHP; ask them to use the whole range of the scale 1-9

C

d

AHP is ideal to get a consolidated result for inputs from several participants, using the geometric mean.

Even with a consistency value above the recommended limit, the

results usually reflect the correct ranking and still can be used.

e

Once AHP is introduced and used as method for decision making, results are in general accepted, as the method is based on mathematics, and seen as "neutral" and objective.

AHP/ANP application

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AHP Practical Application







ANP: Setting up a model



b

Careful consideration and clear description of the decision problem

Thorough brainstorming to find important criteria & relevant factors



Clarity about criteria and factors & definition of their exact meanings

Systematic investigation of interconnections between nodes



d

Simplification!



Critical assessment of out coming results

AHP and ANP can only be as good as the model description.

ANP Setting up a model ANP **Control Criterion** Cluster 1 Cluster 2 Alternatives

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Analytic Hierarchy Process

Analytic Network Process

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