Complexity Simplifying Risk

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30 September, 2016

Complexity Simplifying Risk

Risk & Systems

Path to the future

Past

Present

Future

Small events occur all the time

Interacting to create emergent outcomes...

which interact to produce futher outcomes

Some of which trigger risk events...

leading to a cascade of different consequences
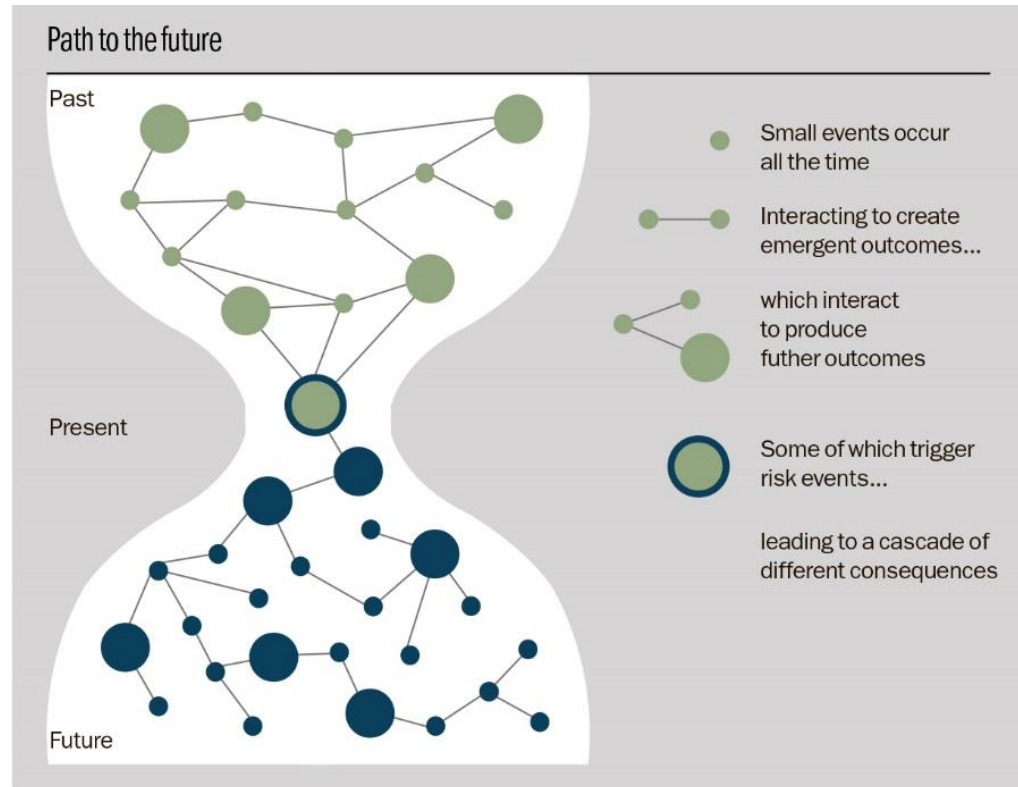
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Search for tools

Path to the future

Past

Present

Future

Clarifying our understanding of the past

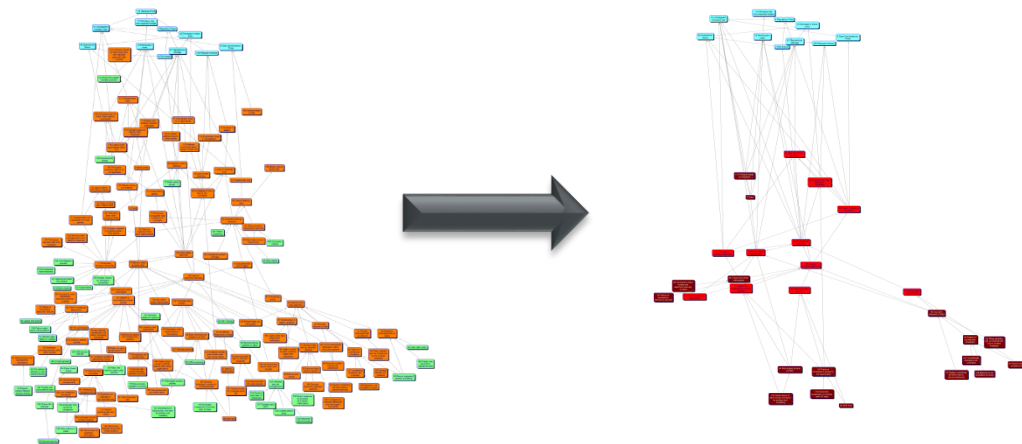Getting a clear picture of what is happening now

Creating a meaningful "grounded theory" about what might happen in the future

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Describing the system – What you know
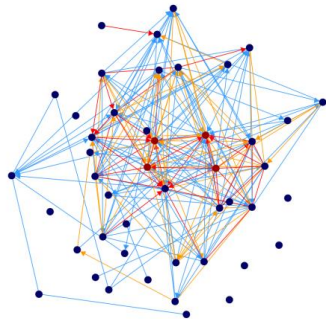
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4

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Describing the system – What you can see

t_1 t_2 t_3

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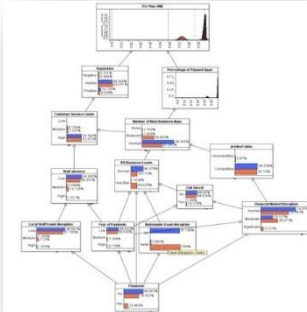
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Forecasting the system
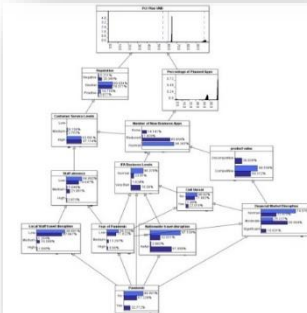
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Exploring the system

Travel Disruption
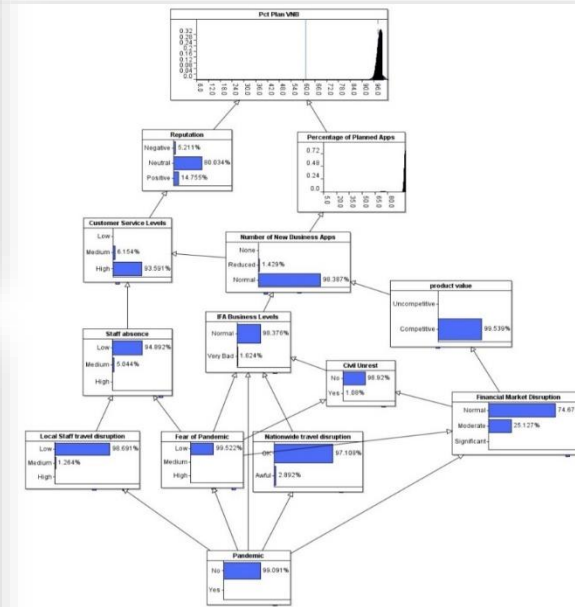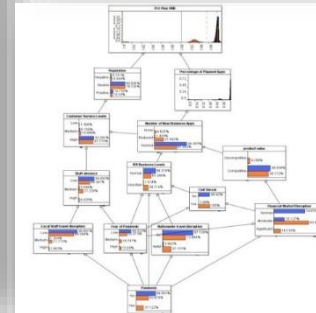
Reverse Stress

Pandemic

Civil Unrest

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Summary

- Describe real situations more clearly and completely

- More realistic $\Rightarrow$ more engaging, more effective

- Embracing emergence $\Rightarrow$ different designs for framework and models

- Better capability to spot and understand new things

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