

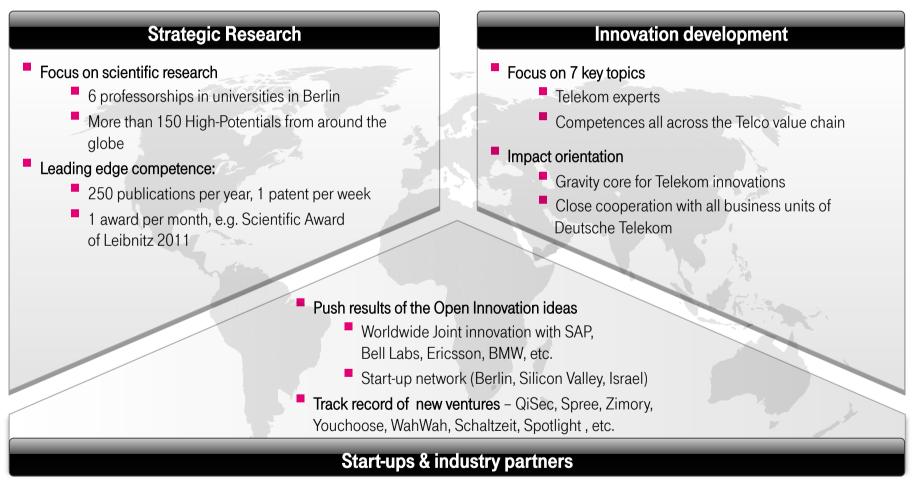
Presented in June 2012 at XXIII ISPIM Conference Barcelona. International Society of Professional Innovation Management. Spain.

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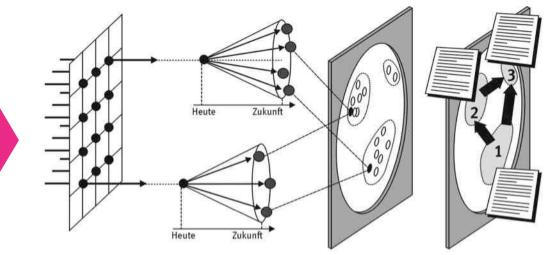
Telekom Innovation Laboratories combines the best of three worlds.

Network of international partnerships with prestigious research institutes, universities, industrial partners and start-ups.



In a previous project we followed a classical approach ...





Trend Analysis

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- Internal Sources
- External sources
- Knowledge of the participants

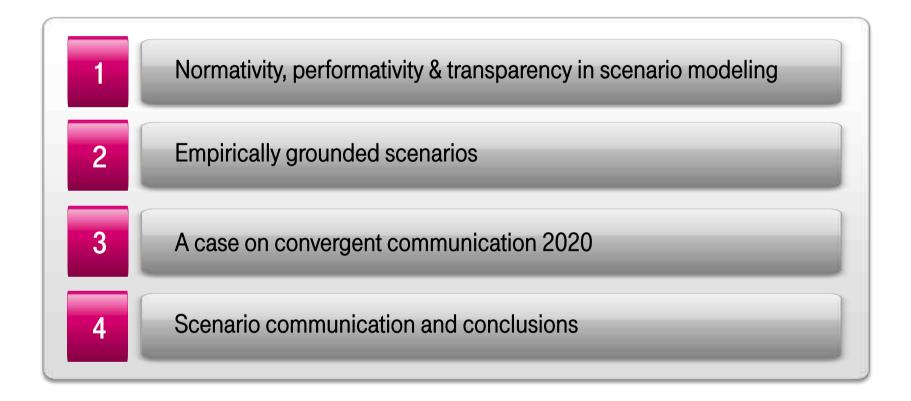
Scenario development

- System analysis & selection of key factors
- Alternative future projections
- Clustering of projections
- Enrichment of scenarios and their interaction

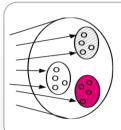
... to model and re-present exploratory future scenarios.



A new approach was developed to explore access in 2020.



The qualitative approach applies three principles ...



Normativity: From trend extrapolation to environmental exploration and visions.



Performativity: From an image to an one time learning exercise and a practice.

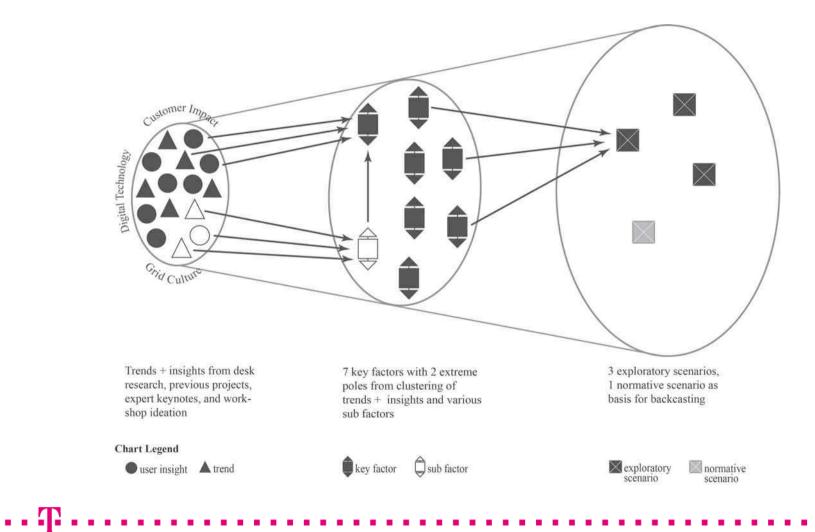
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Transparency in every part of the discourse, multimodal communication.

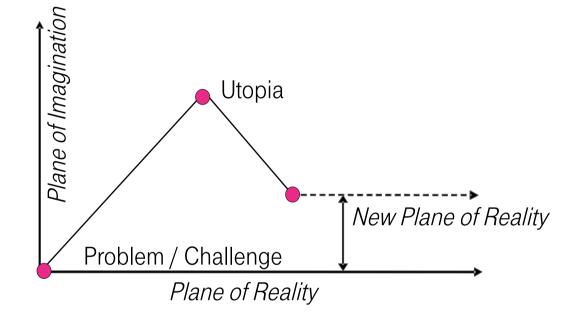
A qualitative modeling approach:

- deep involvement of participants in a
- transparent process addressing
- exploratory as well as normative visions.

... in order to develop empirically grounded scenarios.



Critique, utopia & realisation proceed beyond exploration.

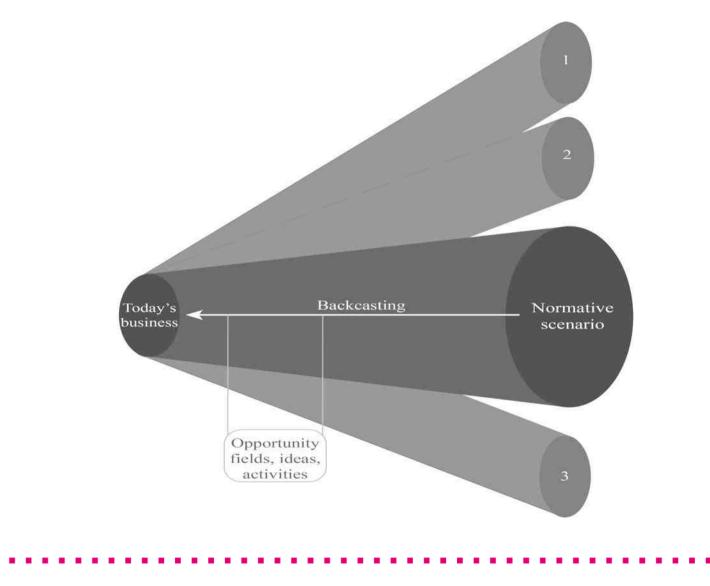


Kuhnt, B., N.R. Müllert; Moderationsfibel Zukunftswerkstätten: Verstehen, Anleiten, Einsetzen. Ag Spak Verlag: Neu-Ulm, 1997.

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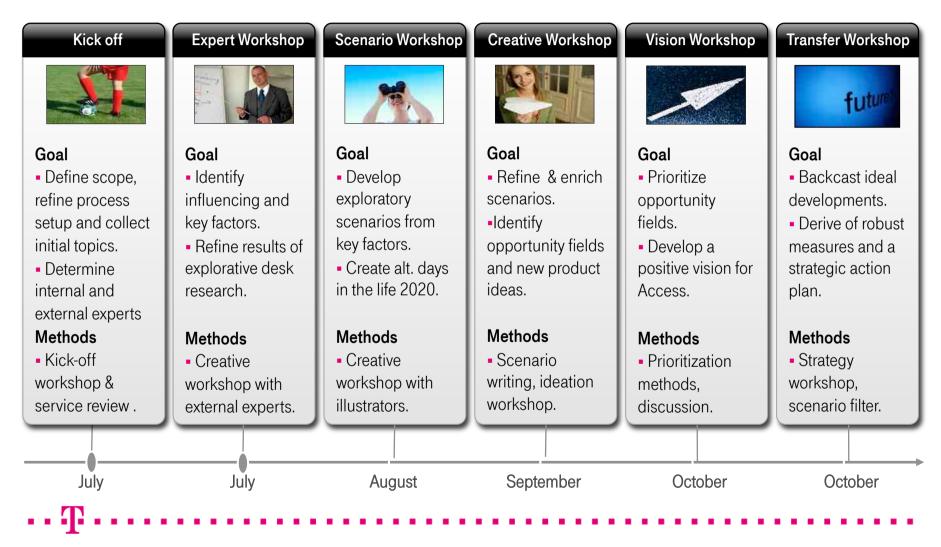
Exploratory and normative scenarios inform strategic decisions.



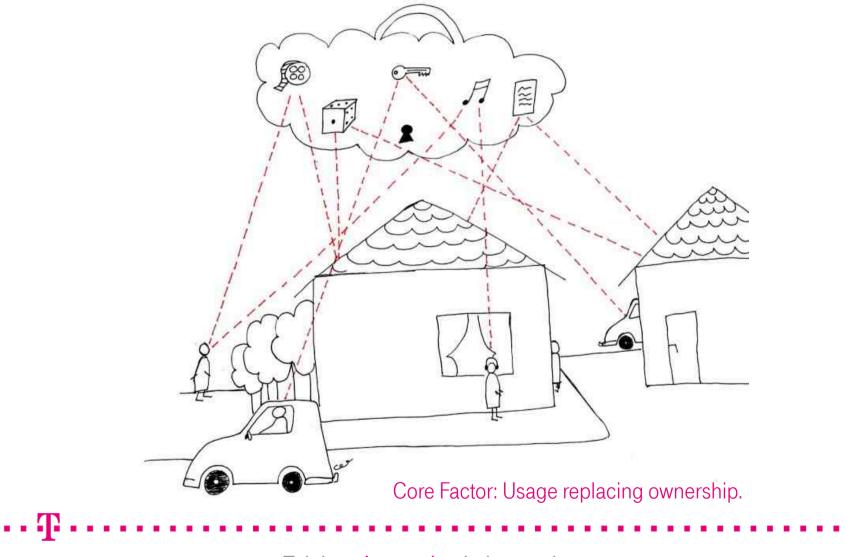
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The process was organized through six workshops.



After language and scope had been clarified influencing factors ...



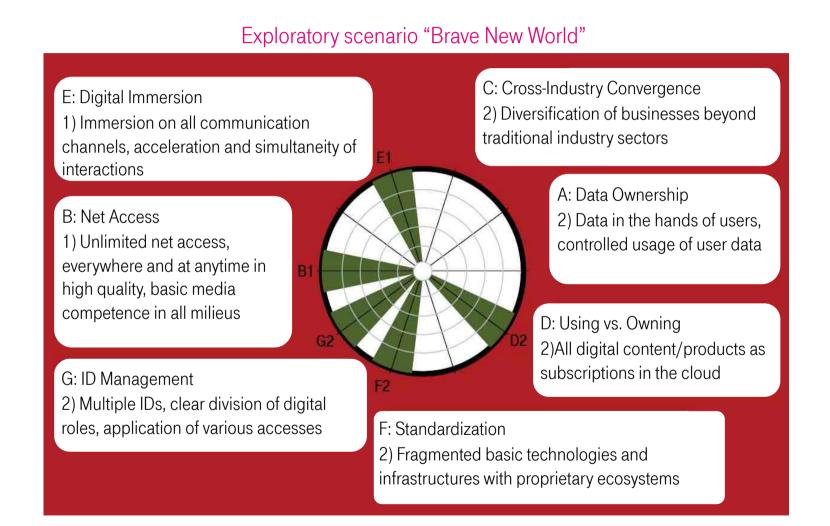
... and core factors have been discussed and prioritized.



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Each exploratory scenario results from the same factors.



Five key factors have been identified ...





... and explored.

Saale Zeitung 🗱 Brückenauer Anzeiger 🛛 🖤 Münnerstädter Zeitung

Überparteiliche Kreiszeitung, Amtsblatt der Stadt, des Landratsamtes und des Amtsgerichtes Bad Kissingen

DIENSTAG 25, NOVEMBER 2020

MIT AMTLICHEN BEKANNTMACHUNGEN DER STADT NORDERSTEDT, DES KREISES SEGEBERG SOWIE DER GEMEINDE TANGSTEDT Norderstedter Zeitung

Endlich!

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Unternehmen einigen sich auf Standard für 3D Holografie.

Die Telekom hat es geschafft - 95% der Deutschen nennen den Netzzugang als höchstes Gut.

Studie ermittelt: Netzzugang ist menschliches Grundbedürfnis Nr. 1 - vor Familie und Freunden (60%). Digitaler Sex überholt den Analogen - Liebe ist ...? Klassische Grundbedürfnisse werden vom Netz optimal gesteuert - daher sekundär!

Maslow 2020 Sex Soziale Anerkennung Schlaf Nahrung

Netzzugang

15-facher Vater mit Multiple ID wird von 5 Müttern überführt.

Von Jörg Kleinert

HORNBURG. Vorhang auf zur 27. Spielsaison: Das Altstadttheater Hornburg feierte am Freitagabend die Premiere des Stücks "Zickenalarm" von Jürgen Baumgarten - ei- Lisa Bader (Sylvia Bauce), eine pasne spritzige, herrlich groteske Ko- sionierte Pessimistin, schlägt Stefan mödie, die voller Schalk und Humor in den Wind. Kaum hat er eine Ansteckt

sind inzwischen Selbstläufer. Die Fünf Frauen auf der Flucht vor ihren Premiere auf den "Brettern" im "Verflossenen" und auf der Suche Haus Hagenberg war wie gewohnt nach einer preiswerten Bleibe. Und ausverkauft. Hinter den Laiendarstellern lagen intensive Probenwo- Mann für Stefans Wohnung-der chen. "Die Stadt Hornburg ist stolz ökologische Dauercamper Martin auf ihr Altstadttheater", betonte (Michael Lindauer). Bürgermeisterin Helga Küchler.

mas. Sonne, Meer und schöne Mäd chen - herrliche Aussichten. Er will Nicole (Britta Meverhoff), seine Verflossene, vergessen. Doch vorher muss ein "Wohnungs-Sitter" her.

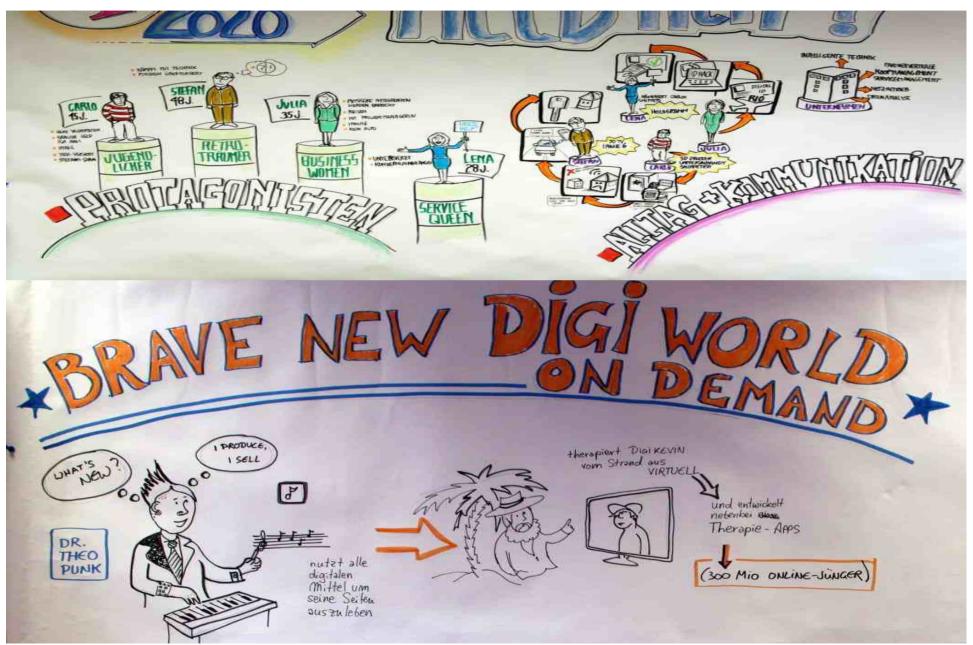
Die Warnungen seiner Nachbarin zeige geschaltet, wird sein Apparte-Die Aufführungen des Ensembles ment von der Weiblichkeit gestürmt. dann interessiert sich noch ein

Bei fünf Frauen sind aber mindes-Zum Inhalt: Stefan Sander (Felix tens vier zu viel an Bord, stellen die Namuth) will sich was Gutes gön- Ladies bald fest. Sie liefern sich einen, nämlich Urlaub auf den Baha- nen Zickenkrieg vom Feinsten, um



Live illustration supports live discussions.

CARENDER



Realistic narrative reveals new details on a "Brave New World".





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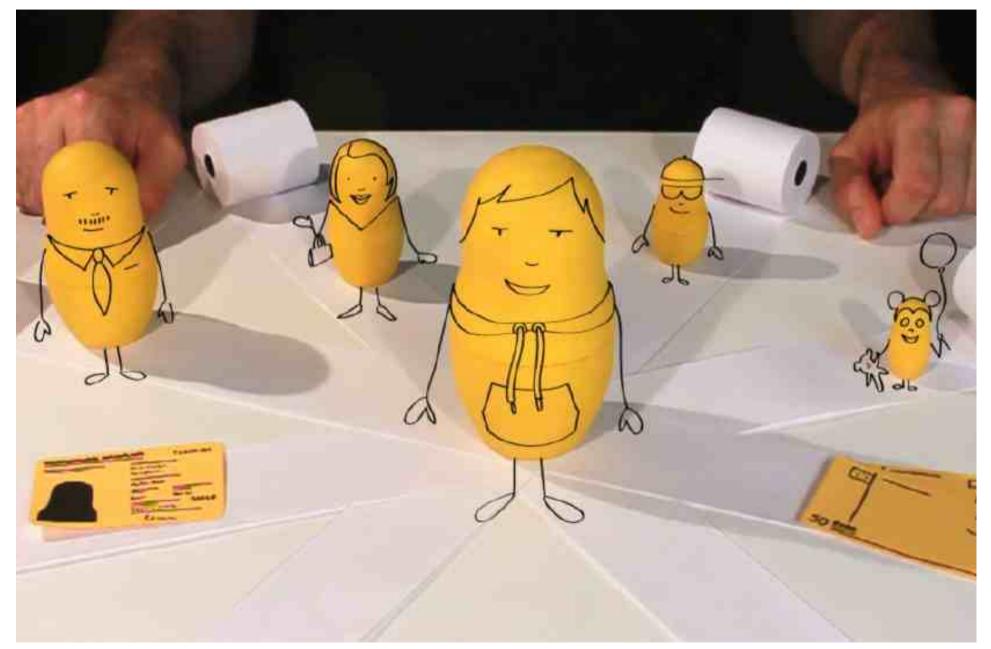
[...] In order to get to his school today, Kevin rents a skateboard from the central parking house in his neighborhood. Big letters on the skateboard identify it as "Spaceboard" since it is being provided by the social network Spacebook. The costs for renting the skateboard is covered by the membership fee for Spacebook. [...] Kevin simply scans the QR code on the skateboard to check it out and to use it for the rest of the day. For the teenager Kevin, these sharing models are really handy since he doesn't need to own all these things but can use them.

The backbone of this paradigm shift in consumption is telecommunication. All things are connected to each other in the Internet of things. [...]

A future gallery visit triggered ideation and controversial discussion.



A stop motion movie promotes follow up activities.



For each of the scenarios the strategy matrix depicts activities ...

T-Access 2020: Unlimited Internet Accessibility, High Standardization, Usage on Demand, Intense Digital Immersion, One–ID Management Activities

Scenario 1: Networked automation is seamlessly omnipresent and helpful *Activities & Opportunities*

Scenario 2: Problems from missing standards and digital immersion find innovative solutions.

Scenario 3: Access barriers and people struggling with side effects of global transformation.

Activities & Opportunities

2012 2016

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2020

... and new opportunities particularly for the alternatives.



Challenge: Problems from missing standards in the scenario "Brave New Digi World".



Challenge: Access barriers and people struggling with side effects of global transformation.

Central Transcoding

Why? Services are not supported across all networks, e.g. HD Voice due to codec diversification within different networks.

How? DTAG offers central transcoding for services providing bridges between ecosystems.



Fall-back Net

Why? Net access is not always secure and reliable, but business and customers need security & net access anytime.

How? DTAG offers alternative ways of accessing the net, e.g. via a satellite router.



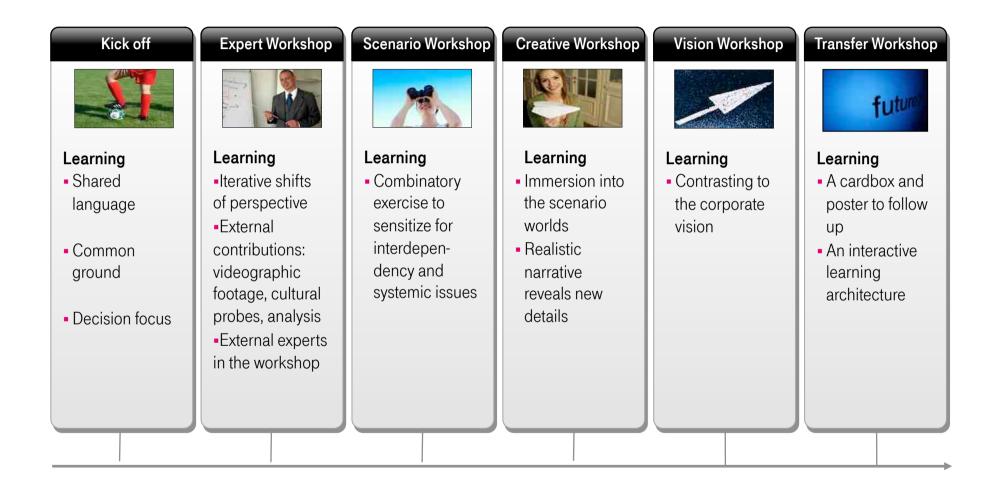


An interactive learning architecture was set up ...

... to host team discussions and management events.



Modeling future scenarios is an ongoing learning excercise ...



... that profits from normativity, performativity & transparency.

Normativity: The normative vision proved to be a most valuable result, with exploratory scenarios for plan B.



Performativity: From a learning exercise towards a practice.



Transparency : Empirically grounded in

needs and expert perspectives, combined with service design methodology.

Future research:

- Set up and evaluate educational curricula, methods and media for modeling scenarios as learning experiences.
- Broadcast practices & mindfulness for innovation to sensitize for alternative futures & opportunities & strengthen strategic vision.

Thank you!

...



Also see: Breuer, H., Grabowski, H. & Arnold, H. (2011). The shape of things to come: Scenarios and visual stories for telecommunication in 2020. In: Proc. of the IADIS International Conference on Telecommunications, Networks, and Systems 2011, pp.107-114. Rome, Italy.

Breuer, H. & Gebauer, A. (2011). Mindfulness for Innovation. Future Scenarios and High Reliability Organizing Preparing for Unforseeable. SKM Conference for Competence-based Strategic Management, pp. 1-18. Linz, Austria. (<u>http://</u> <u>www.bovacon.de/papers/2011_Mindfulness.pdf</u>).

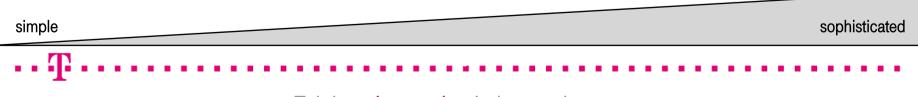
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Linking future scenarios to present decisions

	Sensitivity/ Risk Assessment	Strategy Evaluation	Strategy Development (planning-focus scenario)	Strategy Development (without planning-focus scenario)
Starting Point	 Predefined strategic decision 	 Already existing strategy 	 One scenario as focus for the development of a new strategy 	 All available scenarios
Goal	 Evaluation of that specific strategic decision: go versus no go 	Evaluation of the viability of that existing strategy	 Testing of the new strategy's resilience against other scenarios 	 Resilient strategy considering variations in business conditions
Approach- Opportunities	Hedging or modification of the decision if needed	 Options for changes, the need for contingency planning 	 Startegy modification, hedging and contingency planning 	 Integration of strategy options into an overall coordinated strategy
Strategy-development	Existing strategy, no new strategy is developed	 Existing strategy might be changed in some points 	New strategy is developed by using a planning-focus scenario	 New strategy is developed by using all available scenarios



Five key factors have been identified ...

