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01 ITONICS COFIM | The Innovation Management Framework

SYSTEMIZE YOUR INNOVATION MANAGEMENT. MAXIMIZE ITS IMPACT.

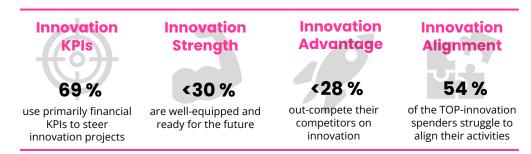


The Value of Systematic Innovation Management

PREPARE SYSTEMATICALLY TODAY, SHAPE YOUR FUTURE SUCCESS.

What innovation management means

Managing innovation is shaping change and uncertainty. Many established companies struggle with this situation because their operations are well-designed and adapted to existing business structures. From that perspective, sustaining and stretching existing business models are the more economically secure bets instead of being the spearhead of change.



Furthermore, change is not tied to a specific direction. This situation scares organizations to set and lose focus. Sensing non-business related developments and developing irrelevant solutions will waste important resources. Organizations thus use the structures, capabilities and metrics that have worked to create the efficient operations of today for managing their innovation activities.

The innovation capabilities you need

Since the future will be different than the present, organizations need a systematic innovation framework to steer towards the future. This requires the specific innovation capabilities to:

- sense external and internal information comprehensively,
- project future developments and make decisions prospectively,
- engage an organizations' network constantly, and
- execute projects with exceptional speed & quality sufficiently.

How COFIM helps you

To get clear guidance on how to develop and steer the innovation capabilities systematically, we have developed the ITONICS Control Objectives for Innovation Management, short COFIM (▶ p. 2). COFIM builds on our extensive experience from hundreds of innovation projects and academic expertise. It represents the fundamental framework for corporate innovation management, spanning across strategic and operative objectives, needed innovation capabilities and dedicated key performance indicators. It thus bundles holistically the key innovation management objectives into a controllable framework.



At a Glance: The Innovation Capabilities Needed

ITONICS COFIM: THE CONTROL OBJECTIVES FOR INNOVATION MANAGEMENT

Foresight & Strategy



Within the **foresight & strategy capabilities**, you set up and shape your future, i.e., sensing, prospecting, planning the future competitive position and establishing a 360° view on competitive developments.

Organization



Within the **organization capabilities**, you set up and shape your internal structure and processes, i.e., aligning people, strategic as well as day-to-day actions, and strategic objectives.

Engagement & Transformation



Within the **engagement & transformation capabilities**, you set up and shape your culture, i.e., establishing a purpose holding the organization together and a collaborative, open-minded environment, facilitating engagement and learning.

Growth



Within the **growth capabilities**, you set up and shape your operations, i.e., providing channels for exploring new opportunities and maximizing the effectiveness and efficiency of your innovation activities.

Environmental Scanning

The capability to scan the (business) environment comprehensively and continuously

Commitment

The management's willingness to transform today's business into tomorrow's business

Structure & Process

The defined channels and series of actions, helping to initiate and coordinate activities

Measures

The operationalized value of strategic objectives, helping you to monitor the progress

Values & Purpose

The set of guiding principles and beliefs that help a group of people function together

Understanding

The shared use of innovation-related language and ways of behaving

Insights

The capability of aligning internal capabilities to relevant business opportunities

Project Excellence

The execution of projects in an efficient and effective manner regarding time, quality and cost

Pictures of the Future

The awareness of different scenarios with relevance to the companies future success

Dissemination

The clarity of the strategic activities to involved actors

Roles & Routines

The assigned power to employees, their frequent actions and responsibilities

Synergetic Portfolio

The balanced and complementary collection of easy win, cash cow, and bold bet projects

Support

The encouragement and enablement of employees through routines and channels

Marketing & Communication

The proper communication of information to increase innovation awareness and engagement

Ideation

The capability to enhance the internal knowledge base with unique, promising ideas

Scaling & Adoption

The proper communication of information to increase clients' awareness and engagement

Planning & Goals

An organization's set of actions to reach the desired position or react to changes

Resources

The available amount of time and financial resources for driving innovation forward

Motivation

The intrinsic motivation of employees striving for continuous improvement and contribution

Solution Design

The capability to define problems and design solutions properly



The Fundament of COFIM

ASSESS, DEVELOP AND MAKE YOUR INNOVATION ACTIVITIES IMPACTFUL ACROSS ALL LEVELS.

What COFIM is designed for

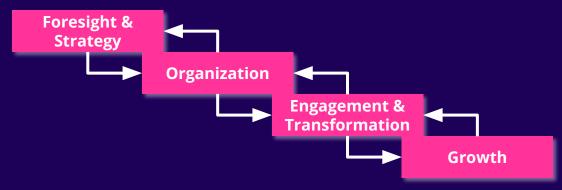
Fundamentally, COFIM is designed for providing structure to assess, develop and steer corporate innovation capabilities. Corporate innovation needs to be an organization-wide activity that is systematically managed. Without a systematic, organization-wide involvement and the necessary innovation capabilities, the focus, levers and actual value of innovation activities are oftentimes unclear. This situation crucially challenges the future viability of organizations. COFIM thus provides the fundamental backbone, explicating the specific capabilities and activities needed across the 4 key corporate innovation levels (>> Figure 1).

How COFIM works

COFIM defines the innovation capabilities that need to be present in corporate innovation systems. In this vein, COFIM serves three main functions. With the help of specific factors within each of the four COFIM levels, COFIM serves as a

- design framework to set up corporate innovation (► p. 8),
- steering framework to improve corporate innovation (▶ p. 13), and
- evaluation framework to assess the current status (▶ p. 21).

Figure 1. The 4 Key Corporate Innovation Levels



What COFIM brings to you

With its holistic and systematic structure, mainly four outcomes can be expected after the successful adoption of COFIM:

- **comprehensive transparency** by eliciting the most important components and actual situation
- **strategic guidance** by revealing directions for improvement
- process optimization by aligning different functions
- benefit realization by measuring the concrete outcomes of activities

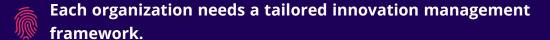


The Six COFIM Principles

FOLLOW THE 6 COFIM PRINCIPLES. ENHANCE YOUR INNOVATION MANAGEMENT CAPABILITIES.

Each organization needs a systematic innovation management framework.

Innovation management is a company-wide activity, spanning across business functions with specific, yet conflicting objectives. The systematic approach details the capabilities needed to coordinate and maximize the overall value.



Since every business field follows specific rules and conditions, corporate innovation management needs to be adapted to the particular circumstances. Not in every industry, the same amount of leveraging innovation capabilities will lead to the same results. This depends on industry & corporate conditions.

Each organization needs a dynamic innovation management framework.

Over time, business fields and organizations develop. As such, corporate innovation management needs to be constantly updated and aligned to changing conditions. It is an evolutionary system.



Each organization needs a holistic innovation management framework.

Innovation management is a system consisting of interlinked capabilities. As such, changes in one element will result in and afford changes in other elements. This interplay needs to be understood and well-designed for making positive changes.

Each organization needs a measurable innovation management framework.

Something cannot be built from nothing. Therefore, organizations need to provide beneficial conditions for innovation. As such, sufficient measures needs to be in place, helping to detect weaknesses and monitoring progress over time.

Each organization needs an integrated innovation management framework.

Innovation management, i.e., preparing for the future, often conflicts with the actual operations. As such, innovation management needs to be interlinked with current operations, explicating the value added by changes and continuity.



02 COFIM as a Design Framework | The Innovation Capabilities Needed

DEVELOP YOUR INNOVATION CAPABILITIES. ENHANCE YOUR INNOVATION ACTIVITIES.

The Foresight & Strategy Capabilities

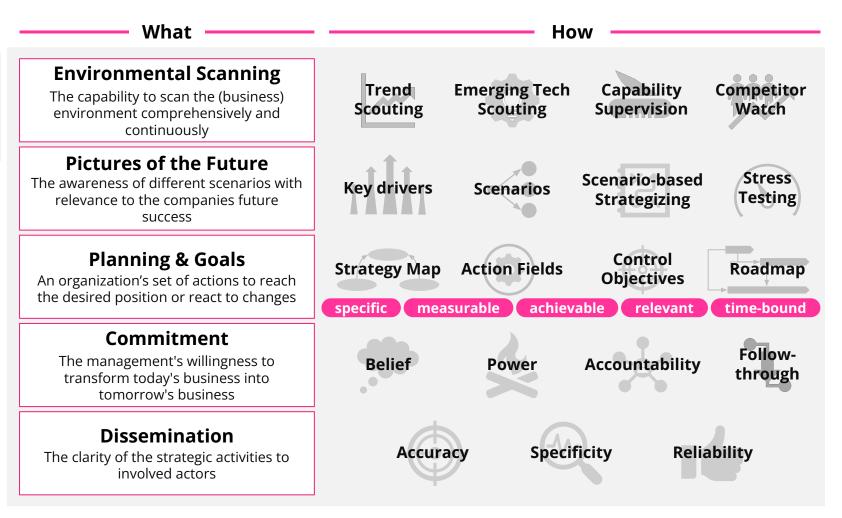
CREATE A FUTURE COMPETITIVE ADVANTAGE BY DEFINING THE STRATEGIC DIRECTION.



On the strategic level, you need the necessary capabilities to define your future competitive position, i.e., **the** what of the innovation strategy capabilities.

By purposefully designing your innovation strategy, i.e., **the how of the innovation strategy capabilities**, you will ensure:

- your future raison d'être
- transparency about the factors affecting your business
- a clearly defined direction for growing your organization





The Organization Capabilities

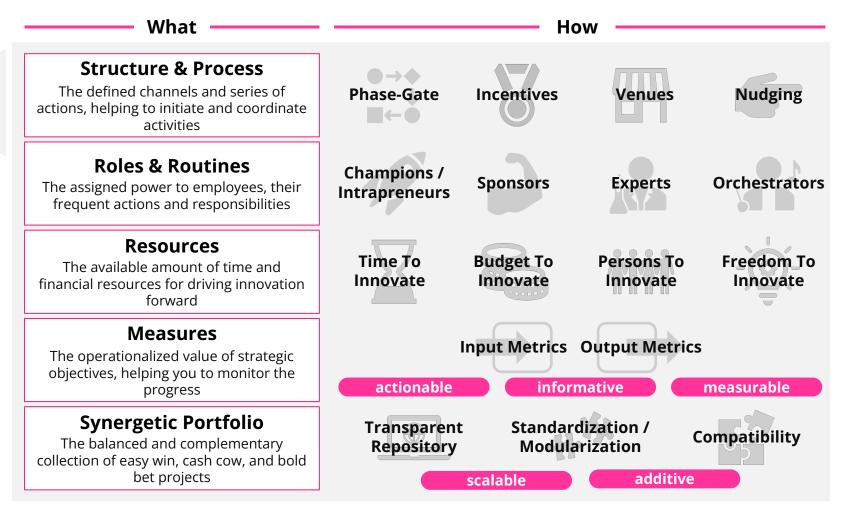
ENSURE STRATEGIC FIT BY ALIGNING PEOPLE, PROCESSES AND OBJECTIVES.



On the organizational level, you need the necessary capabilities to orchestrate your innovation activities, i.e., **the what of the innovation organization capabilities.**

By purposefully designing your innovation organization, i.e., **the how of the innovation organization capabilities**, you will ensure:

- the efficient use of resources
- the transparent sharing of knowledge and expectations, and
- the smooth alignment between functions, objectives, and people





The Engagement & Transformation Capabilities

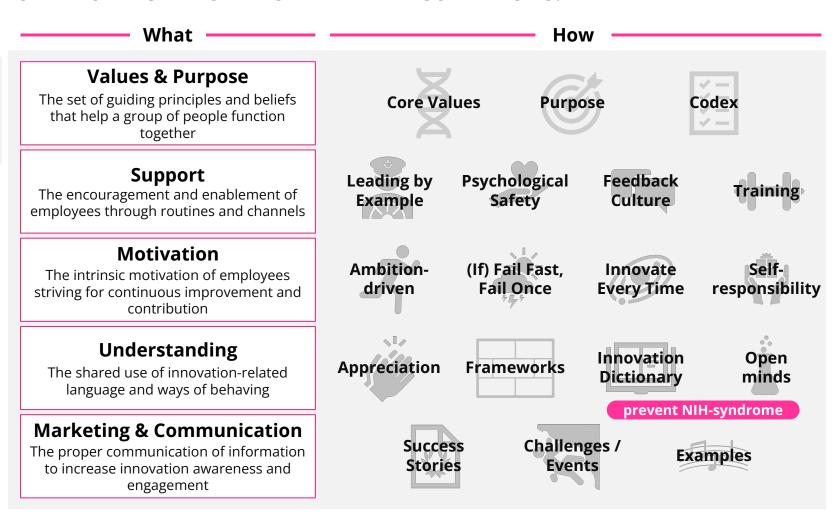
ENGAGE YOUR NETWORK BY ESTABLISHING INNOVATION FRIENDLY CONDITIONS.



On the cultural level, you need the necessary capabilities to engage your internal and external network, i.e., **the** what of the innovation culture capabilities.

By purposefully designing your innovation culture, i.e., the how of the innovation organization capabilities, you will propel:

- employees' enduring contribution to corporate innovation
- the acceptance of new ideas, and
- the efficient communication across silos





The Engagement & Transformation Metrics

MEASURE YOUR PROGRESS IN ENGAGING YOUR INNOVATION NETWORK.



The job of innovation culture KPIs is to ensure a high engagement level of and outside an inside actors organization. They help to establish an innovation culture.

Thus, they are mostly a mix of quality-related and time-related efficient and metrics to ensure effective collaboration.

Legend

revenue-related (\$) cost-related

time-related

Q quality-related

Value & Purpose

Transformation spending (\$) index

Costs for transforming the business vs actual sales

Codex reliability

Number of codex violations per employee

Language & **Understanding**

Communication slack



Time spent discussing words / concepts vs project / working time

Preparation slack



Time spent preparing materials for internal communication / working time

Support

Leadership time

Percentage of leadership time spent sponsoring innovation activities

Training (

Percentage of employees trained in innovation management regularly vs all employees

Marketing & Communication

Collaboration index (2) (5)



Number of new ideas / projects consolidated by cross-functional collaboration

Open innovation index (2)



Percentage of "outside" vs "inside" inputs accepted vs received in the innovation process

Motivation

Extra hours 🗵



Amount of extra hours spent on innovation activities vs work time

Employee contribution (2)



Number of people conducting experiments / submitting ideas vs all employees over X-time

Employee retention (2)



Percentage of employees contributing continuously to corporate innovation



The Growth Capabilities

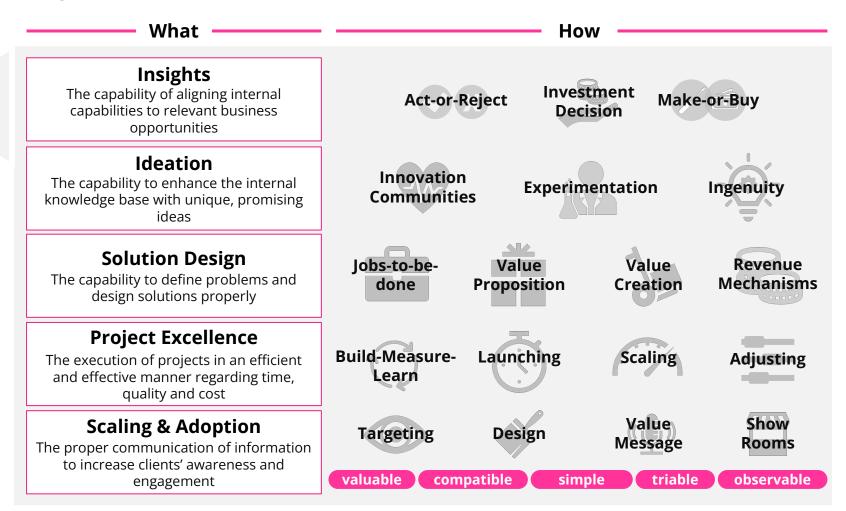
EXECUTE YOUR INNOVATION PROJECTS ALONG ALL STEPS WITH EXCELLENCE.



On the operational level, you need the necessary capabilities to turn your plans into concrete activities and outcomes, i.e., **the what of the innovation operation capabilities.**

By purposefully designing your innovation operations, i.e., **the how of the innovation operation capabilities**, you will propel the:

- rapid detection of relevant environmental developments
- efficient and effective creation of market-ready solutions, and
- appropriation of financial value





03 COFIM as a Steering Framework | Actionable Innovation KPIs

MEASURE PROGRESS. JUSTIFY INVESTMENTS. MAXIMIZE SUCCESS.



Steering Innovation Activities by KPIs

INNOVATION METRICS NEED TO BE ACTIONABLE, INFORMATIVE, MEASURABLE.

The difference between vanity and actionable KPIs

When discussions turn onto immediate financial impact, even the most solid innovation management activities are quickly defeated. Financial impact only unfolds in the future, so that justifying and steering innovation activities towards desired future goals ask for a specific type of metrics: actionable innovation metrics.

Actionable Metric Characteristics

KPI is relative (input/output) and time-bound

KPI relates to specific goals and has a motivation

KPI reveals possible directions for change

However, organizations fear to use innovation KPIs because they do not want to restrict creativity or simply use vanity metrics, only looking good on paper. In contrast, actionable metrics relate input and output factors, providing specific guidance whether innovation activities move into the right direction, need modifications and are of value. A well-elaborated system of actionable innovation KPIs is thus the only solid base to control activities and justify investments in innovation.

Vanity Metrics



Feels good to look at, but lacks clear guidance for concrete next actions, e.g.

- Profitability
- Generated ideas
- Number of patents
- ROI
- R&D spending

Actionable Metrics



Inform business decisions by measuring means relative to ends, e.g.,

- R&D-to-product conversion
- Idea-to-margin conversion
- Time-to-insight
- Budget-to-development
- Time-to-adoption



The Foresight & Strategy Metrics

MEASURE YOUR PROGRESS IN REACHING YOUR FUTURE COMPETITIVE ADVANTAGE.



The job of foresight and strategy KPIs is to measure the progress in reaching a future competitive advantage. They help to manage the strategy capabilities.

thev often Thus, most are quality-related operationalize and future markets. action fields and goals.

Legend

revenue-related (\$) cost-related

time-related



Environmental Scanning

Inspiration index (



New inspirations found vs active scouts in X-time

Evidence index



Inspirations found vs transferred into relevant driver estimations in X-time

Awareness index <



Volume of opportunities missed vs all opportunities scouted in X-time

Commitment

Commitment Index (



Percentage of occasions where leaders acted according to objectives in X-time

Follow-through index (



Percentage of occasions where innovation activities have been delayed / cancelled in X-time

Pictures of the Future

Future threat index (\$)





Number of scenarios threatening the existing / targeted business

opportunities reachable vs relevant

Growth opportunity index (§) Number / volume of market





Innovation action field index

Number of successful vs all

(internally and externally)

innovations launched in X-time

Planning & Goals



Percentage of running projects in strategic fields of action vs all innovation projects

Innovation history index (2)

Innovation volume index



Expected market volume for innovation projects vs existing projects' projections

Dissemination

opportunities identified

Reliability index



AVG time spent for adopting to unexpected strategic changes

Communication clarity



Number of SMART goals vs all strategic goals



04 Implementing COFIM

UNDERSTAND YOUR SITUATION. TAILOR COFIM. STEER YOUR PROGRESS.



The Organization Metrics

MEASURE YOUR PROGRESS IN ALIGNING PEOPLE AND PROCESSES TO YOUR INNOVATION OBJECTIVES.



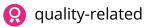
The job of organization KPIs is to align people and processes to your strategic objectives. They help to manage the coordination process.

Thus, they are a mix of quality-related, time-related and cost-related metrics efficiency ensure the and effectiveness of your organization.

Legend

revenue-related (\$) cost-related

time-related



Structure & Process

Budget-to-development 🔼 💔





Time needed to translate R&D spending into product development

Project traceability (9)



Number of projects following no traceable paths vs all projects

Transparency index (2) (5)





Time needed to find already available information vs. regular working time

Metrics

Actionability Index 😥



Percentage of actionable metrics used vs all metrics

Completeness index (?)



Percentage of goals underpinned with actionable, informative and measurable metrics

Roles & Routines

Champion index (2)

Percentage of intrapreneurs / champions inside the organization

Activity index (



Number / volume of active innovation projects per BU

Synergetic Portfolio

Cross-sell index



Number of projects transferred / cross-sold in unexpected areas vs all projects

Innovation portfolio balance 😡



Number / volume of transformational / adjacent projects vs all projects

Resources

Innovation time



Percentage of innovation time allocated to employees vs working time

R&D Budget (\$)



Percentage of innovation budget committed per field of action vs outside fields of action

Person Budget 💔



Percentage of employees being requested to engage with innovation vs all employees

Freedom-to-experiment (



Percentage of "unconventional" employee contributions being rejected without explanation

Incentives 📢



Money spent on incentives vs innovation budget



The Growth Metrics

MEASURE YOUR PROGRESS IN EXECUTING INNOVATION PROJECTS WITH EXCELLENCE.



The job of growth KPIs is to ensure the effectiveness and efficiency innovation projects. They help to manage the steps of the execution process.

Thus, they are mostly a mix of revenue-related cost-related and metrics ensuring the transition of efforts into value.

Legend

revenue-related (\$) cost-related

time-related **Q** quality-related

Insights

Time-to-insight 🔼 🔘





Time needed / number to react vs detect environmental developments

Time-to-decision 🛛 😡





Time / number of correct estimations / decisions vs all decisions in X-time

Project Excellence

Progress index (2)



Number of innovative projects progressing through project milestones each quarter vs all projects

Health status 🔘 🛂 🔼





Percentage of projects not meeting expectations (quality, time, costs)

Ideation

Idea quality (2)

Number of promising ideas vs all ideas submitted in X-time

Time-for-transition





Time actual vs expected for transforming ideas into innovations in X-time

Scaling & Adoption

Time-to-adoption 🔼



Time / number of customer adoption in X-time vs market size

Stickiness (\$)



Number of customers sticking to a solution vs all customers in X-time

Solution Design

Customer job (



Number of new customer problems solved vs identified in X-time

Hypothesis index (



Number of tested vs untested hypothesis before market launch

Modification costs 🔩



Cost spent on iterations after market launch in X-time

Idea-to-margin conversion (§)



Time/ number / volume of ideas turned into experiments / patents / products vs all ideas

New customer conversion (§)





Time / revenues from solutions / patents sold to new customer segments vs all segments



Feeding Innovation KPIs

FEED YOUR METRICS WITH THE RIGHT APPROACH.

To apply KPIs, you need to start with collecting the right data. This includes collecting data about internal operations and external opinions on your innovation activities. To do so, there are different approaches that have particular strengths.



With A/B-Testing, you compare two or more identical versions with one variation per version that you want to test. The goal is to identify the version that maximizes your outcome of interest. You can also use variance in test groups to identify differences in customer behavior.



Besides measuring existing data, approximations, such as Sales Forecasting or Total Addressable Market estimations, build on logical arguments to estimate complex, often unknowable concepts. Approximations deductively collect different data, providing initial guesses that can then be tested.



The idea of (Customer) Journey Observations is to map the steps a person goes through doing a particular job.

Understanding such journeys is powerful to collect unobvious pain points and attitudes. Those qualitative data enrich quantitative information and inform about the reasons why activities might go well or not.



Prototyping for customer preference testing

Prototyping, or testing Minimum Viable Products (MVPs), strips your solutions to the bone, i.e., core functionalities. This helps you to collect data quickly and more cost effectively. You need to decide what the core value of a solution is and whether this value proposition solves customers' jobs.



The purest form of collecting data is to count occurrences, e.g., number of successful experiments, incoming revenue, or money spent. This includes cardinal as well as ordinary data that provide the basis for steering developments over time.



Developing and Sustaining Innovation Capabilities

UNDERSTAND YOUR SITUATION. TAILOR COFIM. CONTROL YOUR PROGRESS. MAXIMIZE YOUR SUCCESS.

Implementing COFIM

COFIM provides a systematic, holistic structure for corporate innovation activities. Since the conditions for firms vary, not every organization needs to adopt all COFIM elements with the same intensity.

Therefore, the most important step to implement COFIM is to know the own situation and needs. Based on this understanding, COFIM can be designed in a way that fits best to the desired objectives. Following the four steps will help you to develop and sustain your innovation management capabilities with long-lasting impact.

Understand your situation and needs

The first critical step is to gain transparency about the desired outcomes and current state of your innovation management capabilities. With our online **ITONICS Maturity Assessment**, you will get a glimpse on it.

Tailor COFIM to your needs

Next, you need to establish the right activities to achieve your goals. Therefore, use **COFIM** to design or refine your innovation management capabilities systematically.

Control your progress

After defining your objectives and setting up the activities, track their achievement by using the **innovation KPIs.** This will help you progress and justify the need for innovation.

Maximize your success

Since conditions change, it is important to adjust your objectives constantly to the conditions. It is also important to stabilize your activities where implementing a **Digital Toolbox** is the way to go.











Our Purpose: Enhancing your Innovation Capabilities

SUCCESSFUL INNOVATION MANAGEMENT: HOLISTIC, INTEGRATIVE, MEASURABLE, SYSTEMATIC.

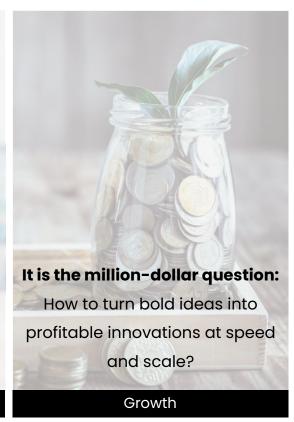
Where to play? How to win? How to execute?

Strategic Foresight — Portfolio Management — Project Execution











At a Glance: The ITONICS Solution Portfolio

TOGETHER WE SHAPE YOUR INNOVATION MANAGEMENT CAPABILITIES SUCCESSFULLY.

Know where to start



Maturity Assessment











Enablement **Scouting Structure & Processes**

Full Service Strategy Development

Roles & Responsibility Profiles

Building an **Innovation Unit**

Full Service

Full Service

Enablement Engagement

Full Service Establishing an **Innovation Culture** Enablement **Experimentation &** Design

Full Service MD/Portunity **Discovery**

SHAPE THE BUSINESS

Strategy Stress testing

Enablement

Innovation Field Discovery

Full Service

Enablement

Software

Training

Training

Enablement

Reward **Innovation Process** Mechanisms Refinement **Enablement**

Stories

Formats

Engagement Innovation Campaigns Enablement

Business

Modelling

Software

Training

Prototyping & **Testing**

Full Service

INCREASE **EFFICIENCY** Software **Scouting Radars Decision Boards**

Software Strategy Roadmaps

Capability Radars Decision Portfolios

Innovation Manager

Software **Phase-Gate** Kanban

Software **Idea Campaigns**

Partner Campaigns

Software

Full Service

Inspirator Phase-Gate Kanban App **Venture Campaigns**

Software

Weak Signal Scanning

BECOME

Training

Training Scouts Keynotes

Publications

Best Practice Sharing **Publications**

Best Practice Sharing **Training**

Engagement **Manager Training**

Publications Best Practice

Sharing Training

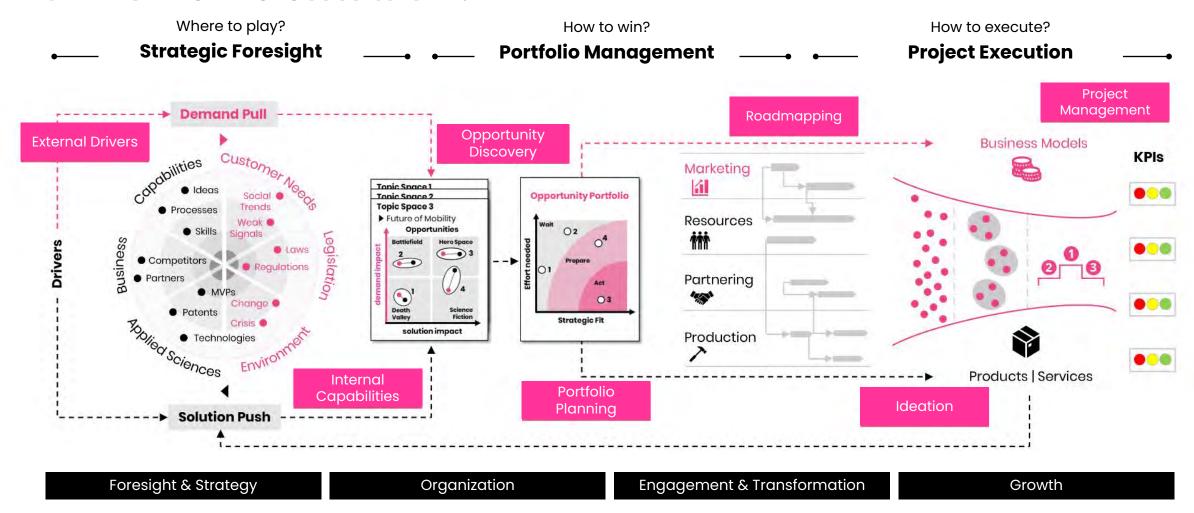
Publications Business Model

Best Practice Sharing



The ITONICS Big Picture

SHAPING INNOVATIONS SUCCESSFULLY.





ABOUT ITONICS

ITONICS is a leading software-as-a-service provider for innovation management, foresight, and strategy. Our Al-powered platform combined with a systematic framework for managing innovation efforts helps companies identify emerging technologies, trends, and market potential and translate them into tailored growth strategies.

Working with global teams to innovate new products, services, and business models, ITONICS professional services inspire, guide, and accompany organizations on their innovation journey. With more than 125 experts on five continents, we support innovation leaders such as adidas, AUDI, BMW, CISCO, Intel, Johnson & Johnson, KPMG and SAP.

















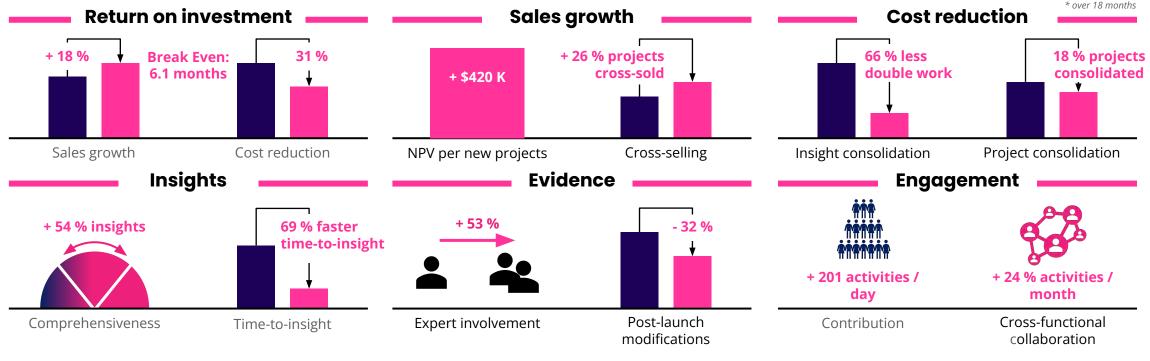
ITONICS Business Value

Find out more here

GAIN TRANSPARENCY. SHAPE INNOVATIONS. STEER GROWTH.

ITONICS provides a holistic digital toolbox, consulting services and market insight reports. The toolbox facilitates collaboration, monitoring, and eases decision-making. Our **radars** help scanning trends, technologies, start-ups, or projects. The **ideation** module helps collecting new ideas. **Matrices** support portfolio management and **roadmaps** help to align business functions over time.





GET IN TOUCH!

If you're hungry for more, we'd love to get in touch with you!



Sebastian PfingstenDirector Sales





Dr. Tassilo HenikeDirector Customer Innovation Success



ITONICS GLOBAL OFFICES

Our solutions empower everybody to innovate around the globe

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