

InnovationTech Synergies Pvt Ltd

Smart Factory is built by changing the mindset
of the people, Not just its Toolset...!

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Introductory

1. About Us

InnovationTech Synergies Pvt Ltd, where the convergence of brilliant minds fuels the journey towards transformative advancements. We are a collaborative force of visionary scientists driven by a singular mission: to pioneer **world-class, revolutionary technology** that amplifies the quality of human life. Our foundation rests on the belief that innovation is the **catalyst for progress**, and through relentless exploration and ingenuity, we aim to shape a future where groundbreaking solutions redefine possibilities. Join us on this exhilarating expedition as we push the boundaries of what's conceivable, dedicated to crafting innovations that empower and uplift humanity.

2. Directors Desk

Shashi Thete is value driven and a forward-thinking leader. As a Founder, his efforts have been instrumental in shaping **Sigma Toolings India Pvt Ltd** into a futuristic and global organisation. He is often found swimming against the tides and loves to challenge the status quo. Even when his perspective may be unpopular, he has pursued his vision with conviction and courage. With passion and positive energy, he has built one of the most advanced manufacturing set-ups in the industry for **Sigma Toolings**. From Six Sigma, lean manufacturing to Industry 4.0 and Quality Assurance 4.0 Technology and Artificial Intelligence, Sigma's design, shop-floor and supply chains are fully aligned to serve the demands of customers around the world.

For more than a decade, Shashi has stayed invested in research for leveraging Industry 4.0 technologies in manufacturing, particularly tooling and inserts. He finds comfort in ambiguity and conflicting ideas and emerges with clarity and action. With a strong business acumen, Shashi is leading Sigma Toolings into one of the world's best technology companies in Toolings and related solutions and always being a great place to work.



Credential

- Founder and Managing Director
 1. Sigma Toolings India Pvt Ltd
 2. InnovationTech Synergies Pvt Ltd
- Board of Directors: InnovationTech Ltd Bulgaria
- Smart Factory Leader
- Mentoring Over 90 Companies-TLC
- Iyengar Yoga Practitioner
- Value-driven, forward-thinking leader
- Author of the Book: Smart Factory



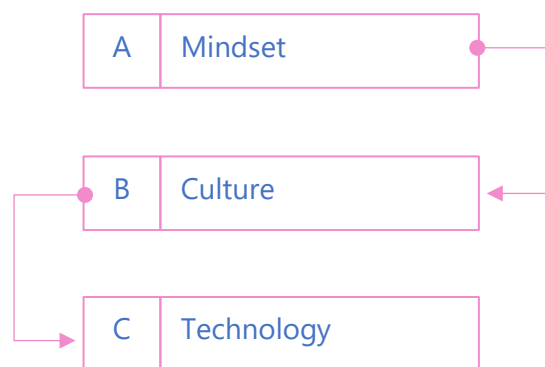
3. The InnovationTech Way

Our Belief: The People Become the tools for transformation, technology is just an enabler

Realization of true potential of a manufacturing facility begins with the change in its people. As people's thinking and mindset begins to change, they in turn drive the change in every area starting from adopting new ways of working, to implementing new technologies for improvement. Teams acknowledge the scope for improvement and start to set higher benchmarks to drive excellence. The result is emergence of centers of excellence in various areas of pertaining to each one's responsibility. With the right alignment across various levels of the organization, the sum of such excellence initiatives adds up to a much greater whole.

The Driving Engine:

Our Driving Engine is based on, that **"We will Change The people and people will change the factory"**



Objectives

- To help develop goals at every level of the organization by identifying critical problems and locating improvement areas; To enable alignment among the teams to achieve the agreed goals
- To transform the mindset of people, culture at the factory and help the team to select and drive implementation of technology and systems for smart manufacturing
- To create champions of Smart Manufacturing who will work as ambassadors of change to drive transformation.
- To build data driven systems that foster Smart Manufacturing by enabling transparency, automation, continuous improvement, self-assessments, appreciation and benchmarking
- To coach, mentor and drive continuous learning of the teams at all levels of the organization to drive improvement, mitigate risks, and contribute to organization's goals
- To aid in investments in technology, software and systems by collaborating with external vendors, development of internal competencies and specific frameworks to assess risks, ROI, and overall impact on the balance sheet.

4. Our Key Happy Clients

5. Export Territory



6. Impact Summary



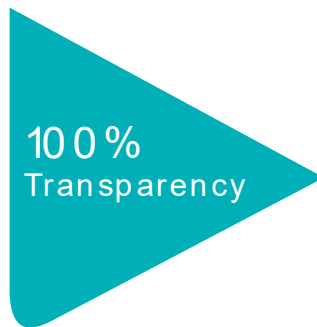
60% of our Designs did not convert into sales order



Automated capture and response with a very detailed information requests for design parameters helped to eliminate 90% of casual enquiries



Relied on Supervisor/Manager feedback for performance measurement



100% Transparency. Total clarity on what and how the performance is measured. Motivated workforce.



Manual Designs. Team of 22



Automated Designs. Team of 5

2014



2021



Design turnaround time of 5-6 hours

95%
Reduction

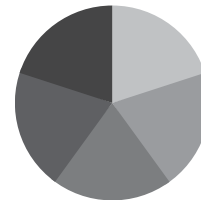


Designs turned around in 15 mins. sharp



Design Engineers used to do drafting. Mostly.

Value
Added Work



Design Engineers are able to focus entirely on value engineering.

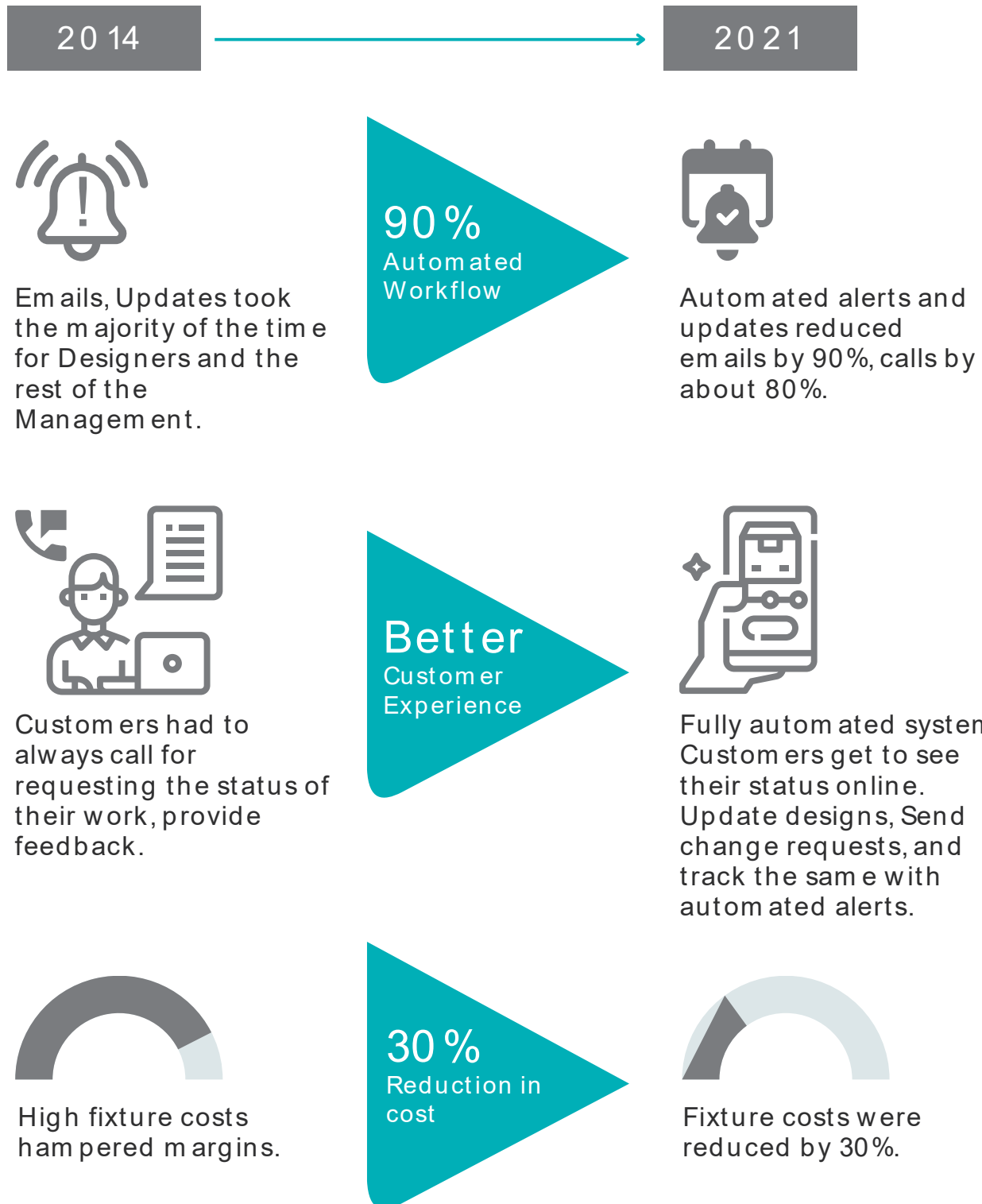


Machine downtime averaged 25% to 60%.

90%
Reduced
Downtime



Machine downtime reduced by 90% in most cases with the onus on working supervisors to report the reason for downtime. Automated system for reporting.



Strategic Business Verticals

1. Smart Factory

Approach

InnovationTech serves as a catalyst in transformation of traditional manufacturing facilities to smart manufacturing. InnovationTech distinguishes itself as the agent of change, driving a 'human' centric approach in transformation of facility from traditional facility to a digital and smart manufacturing. The transformation is achieved with change in mindset of people, inculcation of the culture and environment where smart manufacturing can thrive and grow along with aiding technology.

Human Centric Smart Factory: Proven Track Record

InnovationTech's leadership team comes with a proven track record of transforming a traditional facility into one of India's best Smart Factory. Moreover, the leadership and the entire team comes with the rich experience of living the journey of Smart Manufacturing with its many ups and downs, and the struggles, especially in changing the mindset of people to adopt to new ways of working. From this experience, we firmly believe that the development of smart manufacturing facility can be best achieved by harnessing the inherent capabilities of the organization itself, which often surpass the capabilities of external consultants or technology partners.

1.1 Industry 4.0

The implementation of Industry 4.0 involves integrating advanced technologies such as the Internet of Things [IoT], Artificial Intelligence [AI], robotics, and big data analytics into manufacturing processes. This transition enables smarter factories with enhanced automation, real-time data processing, and predictive maintenance. By connecting machines, devices, and systems, Industry 4.0 improves operational efficiency, reduces downtime, and increases production flexibility. Implementing these technologies requires a skilled workforce, robust cybersecurity measures, and investment in infrastructure. As a result, businesses can achieve higher productivity, cost savings, and innovation, positioning themselves to stay competitive in the evolving industrial landscape.

Key Features

- One Stop Solution for all I 4.0 & Q 4.0 needs
- Complete On-Premise Solution
- Faster Implementation
- No Hardware for Data Acquisition for machines having data available on LAN port
- Customized solutions as per your unique needs
- Your Data Your Ownership – Business Model
- Expertise in I 4.0 & Q 4.0 Solutions
- Continuous Support and Training
- Very easy to use Platform
- Plug and Play System
- Single System for all solutions

1.2 Quality Assurance 4.0

The implementation of Quality Assurance 4.0 involves leveraging advanced technologies like Artificial Intelligence [AI], machine learning, and the Internet of Things [IoT] to enhance traditional quality management practices. This shift allows for real-time monitoring of production processes, predictive analysis of defects, and automated testing, improving overall product quality and consistency. Quality Assurance 4.0 also integrates big data analytics to identify patterns and root causes of quality issues. With increased automation and smarter systems, organizations can achieve faster response times, minimize human error, and reduce costs. Ultimately, it drives continuous improvement and enhances customer satisfaction in a highly competitive market.

Key Features

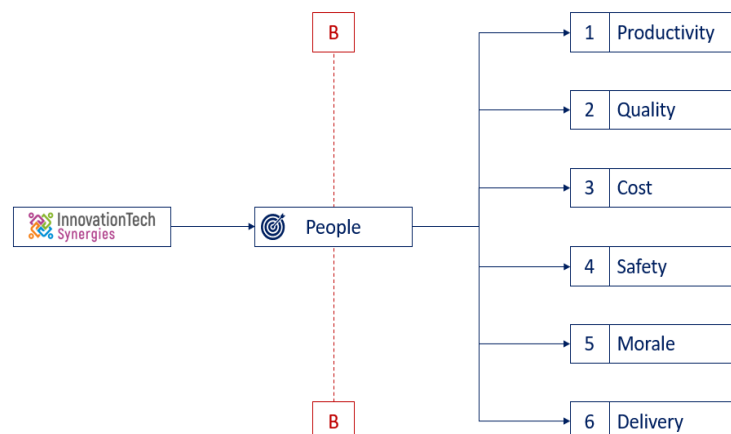
- Real-time data analysis
- Improved product quality
- Faster decision-making
- Enhanced process efficiency
- Predictive maintenance capability
- Reduced waste and rework
- Greater traceability and transparency
- Higher compliance with industry standards
- Increased customer satisfaction
- Integration with Industry 4.0 systems
- Automated quality control with minimal human intervention
- Data-driven root cause analysis
- Digital twin for quality simulation and optimization
- Continuous learning from historical data for improved future performance
- Scalability for multi-site operations
- Reduced downtime due to predictive quality insights
- Better alignment with global quality benchmarks
- Customizable dashboards for real-time monitoring

2. Advisory

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2.1. Advisory For Smart Factory

Smart Factory vision building workshop series

For the past 5 years, we have been helping fellow Small or Medium Enterprises and Industry 4.0 teams within large enterprises to shape and hone their vision for smart factory. Recently, building on the experience of these informal interactions, I have put together a series of structured workshops to establish the vision of Smart Factory for manufacturing industries. Smart factory is about imagining a new reality, and the workshop series helps to develop a logical process of creating this vision, together as a team. At the end of these workshops, the teams would have built a concrete vision that identifies the before-after scenarios and KPIs for various functions and processes in the smart factory.

Expert speaker and facilitator on Industry 4.0 implementation

We have a first-hand experience of the deep and transformative power of a smart factory. In the process, we have also learned from the failures, hurdles and challenges that one faces along the implementation of Smart Factory initiatives. With an expert speaker and being a facilitator, we enable teams to overcome hurdles, tackle challenges and rise again from their failures to develop the smart factory of their dreams. The intervention includes insight building sessions, motivation and perspective sharing and leading the teams forward by taking collective ownership of their vision. We truly enjoy sharing our learnings and bringing ideas of the teams into reality.

End-to-end consulting for transformation into a Smart Factory

Leveraging over 7 years of experience in end-to-end implementation of Smart Factory at Sigma Toolings, we have now started a dedicated practice for companies aspiring to transform themselves. From vision building, technology and team selection, pilots, ideas to managing risks, our expertise is available at every stage. Here, we work closely with the internal teams of your company, to implement various smart factory initiatives. The efforts are supported by our dedicated team of experts from Smart Factory to analyses, guide and manage projects with regular intervention.

3. Engineering Services

At InnovationTech Synergies Pvt Ltd, the convergence of brilliant minds drives our pursuit of transformative advancements in diverse engineering technologies. As a collaborative force of visionary scientists, we are united by a singular mission: to pioneer revolutionary technology that enhances the quality of human life. Our foundation is built on the belief that innovation is the key to progress. Through relentless exploration, creativity, and ingenuity, we strive to shape a future where groundbreaking solutions redefine what is possible. We are committed to pushing the boundaries of innovation, continuously creating world-class solutions that improve lives and inspire positive change.

3.1 Coating Technology

Introducing a groundbreaking advancement in coating technology that holds the potential to revolutionize the metal lifespan. Our unique advanced coating technology has been developed to significantly enhance the lifespan and performance of metals that continually run under frictional condition, ultimately increasing their longevity by up to **2 to 15 times**, thereby reducing maintenance costs and improving overall operational efficiency.

Our team at InnovationTech has dedicated extensive research and resources to the development of this innovative coating technology. We are proud to say that our solution has undergone rigorous testing, demonstrating remarkable results in enhancing the wear and tear capacity of materials.

Here are some key advantages of our advanced coating technology:

1. Extended Lifespan:

Through our coating, we can significantly reduce wear and tear, thus increasing the operational life of any metals that work on continuous frictional condition by up to 2 to 15 times. This directly translates into reduced replacement costs and increased asset utilization.

2. Reduced Maintenance Costs:

By extending the lifespan of metals, our technology allows for fewer replacements and maintenance intervals, resulting in substantial cost savings for your defence Industry.

3. Improved Performance:

The enhanced wear resistance of our coating ensures better performance and reduced downtime, leading to more reliable and efficient Application.

4. Environmental Benefits:

Prolonging the life of the Metals reduces the environmental impact by minimizing waste and the resources required for manufacturing and disposal.

5. Impact Benefits:

It will reduce adverse Impact of Friction, Torsional Friction, Corrosion, Wear, Adhesion, Aggressive environments.

6. Customization Aspect:

We offer tailored solutions to match the specific needs and conditions of the Application.

7. Tested Certifications:

We have completed comprehensive testing on the different Metal Parts from various application, utilizing various parameters, and obtained all necessary Testing Certifications in accordance with the standard requirements for the industry.

3.2 Solar Technology

At InnovationTech Synergies Pvt Ltd, we are dedicated to driving the shift towards renewable energy through innovative and sustainable solar power solutions. With years of expertise, we offer comprehensive services, from project planning and design to installation, operation, and maintenance. Our mission is to reduce energy costs, promote eco-friendly practices, and deliver high-quality, reliable solar solutions tailored to meet the needs of industries, commercial businesses, and residential clients.

We take pride in our commitment to providing the best in solar technology, ensuring that each project contributes to a greener future while optimizing energy consumption for long-term cost savings. By leveraging cutting-edge technology, expert consultancy, and top-tier service, InnovationTech Synergies Pvt Ltd, is empowering communities, businesses, and industries to harness the power of the sun for a sustainable tomorrow.

Key Features

- Proven Expertise
- Comprehensive Services
- Sustainability Focus
- Tailored Solutions
- Strong Industry Relations
- Dedicated Support

Our Key Services

- Solar Energy solutions
- Energy Auditing & Optimization
- Power Procurement & Regulation
- Electrical Project Services
- Daylight solutions
- Greenfield Project Consultancy

