



TCS Pace Port™ Pittsburgh

In the Business 4.0™ era, applying innovation at scale using 'agile' as a vehicle helps enterprises embrace risk and rehearse their options. The technology pillars of Business 4.0 – intelligent, agile, automated, and on the cloud – have become the foundation for an adaptive core or 'digital spine' for the organization. Enterprises need to build upon their strong digital technology foundations with a long-term focus on driving sustainable growth and transformation while focusing on ensuring resilience and adaptability during difficult times.

Tata Consultancy Services (TCS) Pace Port™ Pittsburgh is a co-innovation and advanced research hub designed to help clients establish their competitive differentiation, set the pace of innovation, and navigate their transformation journeys based on a foundation marked by resilience, adaptability and sustainability.

Located at the TCS Hall at Carnegie Mellon University (CMU), the creative hub is a catalyst for collaboration between TCS, its clients, CMU and local startups for navigating the discovery, definition, refinement and delivery phases of cutting-edge technology. Leveraging TCS' extensive contextual expertise spanning several decades and numerous industries, TCS Pace Port™ Pittsburgh's offerings foster greater agility, speed, creativity, impact and scalability in business models.

Overview

A physical manifestation of the TCS Pace™ promise, TCS Pace Port™ Pittsburgh combines TCS' global research and co-innovation network capabilities with Carnegie Mellon University's academic research prowess. It expands to all TCS clients in the US, representing more than one-third of Fortune 500 brands. While its set-up serves all industry verticals, TCS Pace Port™ Pittsburgh's Research & Innovation (R&I) charter focuses on the Manufacturing and Utilities industries along with IoT and Digitate units.

Manufacturing enterprises have witnessed an exciting period of change in the last decade. While customer experience has taken a center stage for products and services strategy, the blurring boundaries between the industry playfields are opening up new competition channels with transforming business models enabled through technology -- as an example, automotive and technology companies both trying to play in the evolving automotive space. In order to meet intense market demands and a disrupting ecosystem, manufacturers need to transform to be neural, flexible and agile when adapting digital technologies, with a built-in and sturdy framework for continual innovation.

The Manufacturing industry is uniquely positioned to navigate the disruption through the adoption of technological advancements in areas of data analytics, artificial intelligence, machine learning, augmentation, additive manufacturing,

infinite edge compute, and harness the abundance of data from connected smart products and assets, the enterprise value chain, and the partner and customer ecosystem.

At TCS Pace Port Pittsburgh, we leverage TCS' strategic focus bets in enabling Intelligent Insights, Augmented Design & Development, Smart Factory, Resilient Supply Chain, Hyper-automation, CASE, Intelligent Products and Services along with our co-innovation partners from academia, and the startup ecosystem to enable automated, intelligent and agile manufacturing enterprises.

The utilities industry is evolving with the democratization of energy technologies and an emerging energy value ecosystem. The industry needs to improve affinity services around the empowered consumer, and grid management efficiency to enable an energy-sharing economy in a transactive era. Utilities must embrace risk and enhance their resilience to navigate the increasing frequency of natural disasters. This needs to happen while Utilities play within the given regulatory environment and rate case mechanisms. This also requires that Utilities extract maximum value out of its existing investments in grid infrastructure by ensuring OT-IT integration, an increase in efficiency through automation, and the enablement of higher workforce safety and productivity using appropriate digital tools. TCS Pace Port™ Pittsburgh brings together multiple Utilities-focused short- and long-term R&I initiatives to chart transformation journeys within the industry.



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Our Solution

TCS Pace Port™ Pittsburgh offers innovation-driven value creation with a rapid idea-to-impact approach for our clients. This is done through:



TCS Innovation Showcases:

A presentation and engagement facility that helps clients visualize the phases of their digital transformation journey



TCS COIN™ Accelerator:

A collaborative space for a network comprising TCS associates, client teams, CMU academia and promising start-ups to co-innovate and co-create



TCS Agile Workspace:

A fully equipped agile working environment to run business solution concepts, with devoted virtual environments engineered to emulate real-world conditions



TCS Think Spaces:

A design thinking workspace tailored to apply design thinking in discovering engaging ways to build new businesses and new sources of differentiation. Our design thinking workshops are tailored and customized to help clients uncover new game-changing opportunities



TCS Academic Research Lab:

A space that allows researchers to gain exposure to the thinking and collaborative ecosystem research environment enabled by TCS, while furthering a research agenda across cutting-edge technology areas such as AI, blockchain, advanced analytics, cybersecurity and quantum computing



TCS Digital Library:

An interactive channel that delivers cutting-edge thought leadership from TCS' vibrant Research & Innovation (R&I) community, digitally. It redefines the library experience by offering a unique, multi-spectral collection of stories across articles, white papers, books, blogs, insight journals etc., being published by the vibrant TCS community



TCS Rapid Lab:

TCS Rapid Incubation Lab aims at accelerating innovation, solving business problems, moving faster from concept to design and experience, and accelerating innovation acceptance

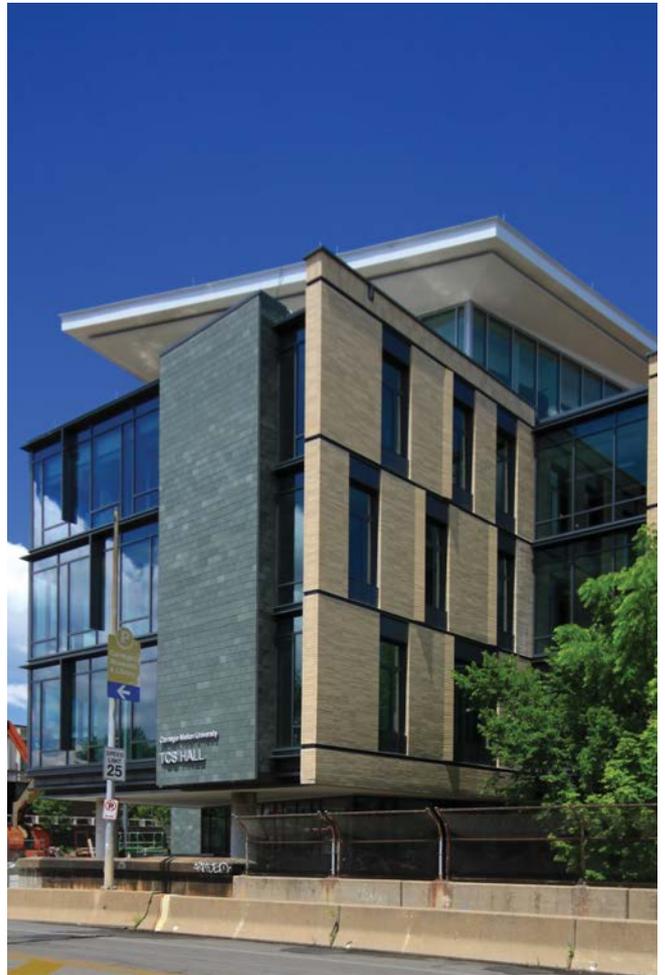
Benefits

TCS Pact Port™ Pittsburgh offers:

- **A real-world approach:** Cutting-edge collaborative research that addresses real-world problems by leveraging the latest in technological innovation and ML tools
- **Future-proofing of business:** Laying the business foundation for an AI-enabled value chain to support evolving business models and ecosystem networks in a digital world
- **The CMU advantage:** Harnessing CMU's prowess in research and innovation and a robust startup ecosystem covering business and technology domains, to offer unique solutions, enabling an environment of collaborative experimentation, rapid prototyping, and continual learning
- **Collective intelligence:** Solving critical business challenges using co-creation and co-innovation through an ecosystem combining TCS scale with clients, partners, academia and analysts

Leverage the TCS advantage at Pace Port™ Pittsburgh

- **A strategic partnership:** The collaboration between TCS and CMU has resulted in a comprehensive ecosystem – of diverse industry experts, start-ups and academia – to drive applied research at scale on next-generation digital technologies
- **A history of research and innovation:** TCS' deep research expertise was initiated in 1981 with the establishment of a global network of innovation labs, such as the Tata Research Development and Design Center (TRDDC) in Pune, India, the TCS COIN™ ecosystem (launched in 2006), the Silicon Valley Digital Reimagination Studio (in 2016), and multiple global annual events that promote advancements across research and innovation



- **The frontrunner advantage:** Tata Research arm (TRDDC) has worked on several generations of technology since establishment in 1981. TCS Research and Innovation (R&I), led by the chief technology officer, was established in 2006. Its corporate technology organization governs enterprise-wide research and innovation activity. The TCS innovation funnel nurtures close to 200 innovation ideas every year
- **A dynamic approach:** TCS strives for greater agility, speed, creativity, impact, and scalability to power our clients' business transformation journeys. Our overall contextual expertise across industry and services keeps us firmly ahead and quick to anticipate market shifts. It also helps us stay proactive in the world of rapid transformative technologies as we strive to foresee and meet evolving client needs

TATA CONSULTANCY SERVICES

Experience certainty.

To know more

Visit the TCS Pace™ page on [tcs.com](https://www.tcs.com)

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About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

For more information, visit us at www.tcs.com

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