

Intellectual Capital



Intellectual Capital is core to Wipro's Strategy. It creates value for the customers and drives sustained growth, differentiation, non-linearity, and profitability for Wipro. Wipro's Intellectual Capital comprises scalable domain and technology Business Solutions which are powered by IPs built for high opportunity areas leveraging partners, academia, and start-up ecosystem.

Wipro has a versatile portfolio of Business Solutions, which cover the whole nine yards of Business Transformation, Process Transformation, Technology Transformation, and Cybersecurity. They are composites that have IP-based assets at their core and are packaged along with our people-based expertise, capabilities from our partners or start-ups and are targeted to solve specific business challenges.

Our Business Solutions are easily consumable and are offered in flexible and simplified outcome-based and as-a-service commercial constructs.

Wipro runs an idea-hunting program called "The Great Blue Heron" (The bird – Great Blue Heron is a great fisher and fishing is used as a metaphor for idea hunting) for capturing high-potential opportunities across customers, domains and technologies. The Great Blue Heron's HaBBIT Framework is then leveraged to add the solution to the portfolio. Through HaBBIT, the solutions can be commercialized using any of the five ways – Harvest & co-Innovate (E.g. TOPS, WHRS), Build IP (E.g. Wipro Virtuadesk™), Buy IP (E.g. ITI), Invest through Wipro Ventures and Technology Enablement.

Intellectual Capital

Once the solution and development approach are finalized, it can then be funded through the Horizon Program which is designed to identify & incubate disruptive ideas and drive significant growth & differentiation for Wipro from a 2-3-year horizon standpoint. Through this program, Wipro funds development of business solutions, products, platforms, and competencies. During FY21, we incubated themes like Robotics, Autonomous mobility, Virtual Automation Engineer (a quality assurance and testing product), and industry solutions like Open Subsurface Data Universe (OSDU). Wipro has also funded building new and differentiated skills on ServiceNow through this program.



Business Solutions powered by IPs:

Wipro has a rich portfolio of enterprise-grade Business Solutions and has been actively investing in strengthening, enhancing, and refreshing the portfolio. Here are some examples:

Wipro's Digital Lending Business Solution powered by NetOxygen Loan Origination System (LOS) and NetOxygen Launchpad Point of Sale (POS) system is the choice of prominent US lenders. With loan origination capabilities spanning across mortgage, consumer and commercial space, lenders have leveraged our solutions to reduce origination costs and boost production efficiency through automation, while enabling quicker deployment and scalability.

Open Subsurface Data Universe (OSDU) is an Open Group forum for development of data management standards for the Oil & Gas Industry. Wipro is a contributing member of this forum since inception. We are an exclusive partner for implementation of the OSDU specifications. We have participated in OSDU technical committees and have been instrumental in deploying the first operator ready versions of OSDU for several major Oil companies.

Wipro's Cloud Studio is a one-stop marketplace that enables our customers to reimagine their cloudification journey and move to Cloud. We provide this through a highly automated and industrialized approach that enables 'lift and shift', re-factor, re-platform, and deploys a Cloud native and DevOps environment while ensuring security and compliance. The '*phygital*' studio includes immersive customer experience zones, collaboration pods for ideating and developing next generation solutions with hyper-scalers and futuristic workspaces.

Wipro has continued its investments in strengthening Business Solutions like Medicare Advantage, Promax, Wipro HOLMES™, Wipro Virtuadesk™, Topcoder and its Cybersecurity Platforms around Cloud Security, Digital Identity & Access Management, and Threat Detection & Response.

Co-Innovation and Open Innovation

Our Open Innovation programs further enriches our innovation capabilities by co-opting an extended innovation ecosystem of start-up partners, academia and expert networks. During the year, we signed into a MoU with Tel Aviv University (“TAU”) for jointly working on identifying possible quantum computing approaches to complicated business problems. Wipro research teams work with the University of Texas at Austin, TAU, IIT Kharagpur, IIT Madras, IISc Bengaluru, and the Institute of Wood Sciences, Bengaluru, among others on various topics in AI, NLP, encryption, 5G, blockchain, autonomous vehicles, CV and other critical new technologies. We also continued to incubate new innovative start-up partnerships and in scaling existing relationships through joint engagements.

Our robotics practice is focusing on industrial robotics developing smart solutions using industrial robots, cobots, AGVs, AMRs, drones and other technologies that aim to make industrial operations hyper-efficient. We have partnered with Wipro-PARI to provide integrated IT-OT solutions to our customers. For all of our robotics projects, we are digitizing, orchestrating the process using AI and generating rich analytics that will help reimagine production. We believe that these initiatives will enable the factory of the future. We have helped our customers with physical automation solution integrated with ERP, drone based automated stock-check, intelligent machine tending, optimize logistic package handling operations and remote management of production line. We have signed a partnership agreement with Yaskawa to develop and deploy production ready solutions to our customers. We have signed research partnership with Fraunhofer Institute of Manufacturing Engineering and Automation to jointly develop AI solutions for the factory of the future.

We are working on building capability in application of 5G technologies. We are engaging with IIT Kharagpur on RF, new waveform and precision localization technology research for 5G and beyond. As an engineering solutions organization, we are investing in building our IP portfolios, in contributing to standards

build, in creating use cases to demonstrate new possibilities and enabling customers to embark on new technology journeys. We have invested in academic collaboration in strategic areas like RF, baseband and remote connectivity with the aim of building deep technology competency and demonstrate thought leadership through valuable patents, standards contribution. We are a member of TSDSI, an organizational partner of 3gpp that defines 5G specification. We are also a member in leading open source initiatives like ONAP, Akraino, O-RAN, TIP and has also set up a 5G COE with development tool chains. Our 5G lab enables our clients to realize use cases leveraging edge computing, network programmability and dynamic orchestration.

AutoInsights, a connected vehicle and mobility platform, is a strategic investment by Wipro. Today, this platform is used across the globe by various automotive original equipment manufacturers (“OEMs”) and related ecosystem players to help them maximize a vehicle’s lifetime value. Recently, we have also signed a co-innovation agreement with a motorcycle OEM to customize AutoInsights patented solutions - this will build a unique and industry-first dealership digitalization experience using connected motorcycle data and voice enabled smart helmets. We also have a number of patents associated with AutoInsights.

Wipro Ventures, the strategic investment arm of Wipro, invests in early- to mid-stage enterprise software startups. The areas of investment include AI, analytics, business automation, cloud infrastructure, cybersecurity, data management, IoT and testing automation.

As of March 31, 2021, Wipro Ventures manages 16 active investments. In addition to direct equity investments in emerging startups, Wipro Ventures has invested in five enterprise-focused venture funds: B Capital, Boldstart Ventures, Gliilot Capital Partners, TLV Partners and Work – Bench.

Intellectual Capital

We have invested in crowdsourcing through Topcoder, a Wipro Company, the world's largest technology network and on-demand digital talent platform with more than 1.5 million developers, designers, data scientists, and testers around the globe. Topcoder empowers organizations to leverage the flexibility of its key enterprise offerings around Enterprise Crowdsourcing (Design, QA, Dev, Data Science), TaaS, and Workforce Transformation (Strategic Consulting). Our community and our customers come together on the Topcoder platform to collaborate and build enterprise grade digital assets. Enterprises distribute work through the platform where community members develop innovative solutions, win money, gain experience, and earn recognition. Topcoder became a part of Wipro Limited in November 2016.

We are also investing in TopGear, our social learning and crowdsourcing platform. TopGear is a powerful learning platform, focusing on workforce transformation in Digital and "in-demand" skills. It consists of over 2,000 learning assignments and case studies across 200 skills in addition to live projects. It provides hands-on experience to employees on emerging digital skills that enable them to become customer-deployable on those skills. Employees can self-select projects that interest them and prepare themselves for future projects. TopGear also enables workforce transformation through structured learning paths aligned to business-specific needs.

Innovation Centers

Our innovation centers, the Technovation Center at Bengaluru and the Silicon Valley Innovation Center in Mountain View, California are state of the art innovation incubation centers that build technology-led innovations to realize the "art of the possible" in emerging business environments for our enterprises world over.

These centers bring together an innovation ecosystem, a set of best practices, IP and research and development resources to help our clients develop successful initiatives. To overcome the constraint of COVID-19 pandemic we created a digital twins of our innovation centers become truly virtual and hosted around a number of our customers and other visitors over the last year and showcased our best technologies and solutions. Additionally, the

Technovation center has developed human free and autonomous industry solutions concepts at the convergence of information technology, operations technologies, engineering technologies and industrial game technologies. These are rendered into the CAVE and holographic systems – both room scale augmented virtuality environments. Business technology themes like hybrid augmented intelligence, augmented virtuality, intelligent mechatronics and integrated approach to simulation and modelling are driving these research activities.



Patent Filings

Our focus on innovation has contributed, as in past years, to some significant patent applications during the year ended March 31, 2021. We have been continuously investing in building a patent portfolio that protects critical Wipro IP, and during the year ended March 31, 2021, in spite of the unique challenges of the COVID-19 pandemic, our investment has continued apace. As of March 31, 2021, we have 2,085 patents filed in various patent jurisdictions around the world, of which 904 have been granted.