We are future-focused and challenge the status quo

André-Martin Bouchard
GLOBAL LEAD, ENVIRONMENT

“We can have a direct impact in our communities and for future generations as we challenge the status quo and innovate constantly.”

Anticipating Trends
At WSP, we ask questions, look at complex problems from different angles and find solutions that break paradigms. We know our solutions will shape the communities of tomorrow and help societies thrive sustainably. That’s why we incorporate innovation in everything we do.

WSP is aware of major trends such as climate change and population pressures, and soil, water and air quality, and takes them into account in its projects. However, each client has a different vision of these trends and sometimes we have to advise them while adjusting our own stance.

When we say future-focused, we must not only think about the environment. “People matter just as much. That’s why we have multidisciplinary teams that include human environment experts and that help us understand communities and improve our clients’ projects,” says André-Martin.

“Since we work on thousands of projects around the world, we have the opportunity to have a direct positive impact on our built and natural environment, our communities and our economy. In fact, at WSP our teams really want to have a positive influence on the future.”

André-Martin Bouchard has his eyes on the future and intends to improve conditions for future generations. For him, and everyone at WSP, standing still is not an option: “We work with our clients for their current needs, but our projects also have an impact on our communities for years to come.”

André-Martin uses the example of WSP’s work on large abandoned mining sites: “These sites often leave a scar on the landscape and are a major source of contamination. Our expertise can erase these effects through an effective remediation process. This is what we are doing in northern Canada where we will leave a healthier environment for future generations.”
UK Rollout of Connected and Autonomous Vehicles

UNITED KINGDOM

WSP has been commissioned by Highways England to drive forward its Connected and Autonomous Vehicles (CAV) Programme. This programme forms part of Highways England’s CAV strategy and is supported by their Innovation Designated Fund, where they are targeting a strengthening of the UK as a global centre for the fast-growing intelligent mobility market. As part of this contract, WSP is supported by an industry-leading supply chain; collectively they will provide a range of services including Programme Management, design of CAV technology solutions, vehicle-to-vehicle and vehicle-to-infrastructure communications, system architecture design, data and cyber security solutions, trials evaluation, road safety case development, and data analysis and modelling.

“This appointment presents an excellent opportunity for WSP to play a major role in delivering this high-profile vision for the UK and be at the forefront of delivering leading-edge transport technology.”

SHAFIQ GARDA
PROJECT DIRECTOR, INTELLIGENT TRANSPORT SERVICES
As heating and cooling goes, it would be hard to find a more innovative solution than the system developed for the spectacular Bürgenstock Resort near Lucerne in Switzerland for our client Bürgenstock Hotels AG, Obbürgen. Towering 500 metres above Lake Lucerne, this historic hotel village was developed in the second part of the 19th Century and is currently undergoing renovation to restore it to its former glory. Our heating and cooling solution involves pumping water via pressure pipes from a depth of 37 metres in the lake up to the Resort. Eighty percent of the water for the Resort’s thermal needs and 100 percent for its cooling needs then circulate through a network of highly insulated pipes originating from an energy distribution centre. The heating and cooling provided by the energy distribution centre is almost CO₂ neutral.

“The future requires all of us at WSP to understand the impact of new and changing technologies on our clients. We then apply our time, energy and intellect to finding appropriate solutions.”

Henry Okraglik
GLOBAL DIRECTOR – DIGITAL, ASIA-PACIFIC
MELBOURNE, AUSTRALIA

Henry is responsible for the overall strategic management of WSP’s Digital practice, with teams in Australia, the US, the UK, the Philippines and Sweden. He is renowned in the industry as a disruptor and thought-leader in all things digital – particularly in terms of integrating the use of software to enhance engineering, infrastructure, buildings, sustainability, health and safety and environmental projects. Henry is a true problem-solver. He encourages our clients to embrace change digitally and be ready for the future. Henry has specialized in technology commercialization, and has occupied a number of leadership and executive roles over the last two decades. He has demonstrated an ability to deliver substantial financial returns for shareholders and stakeholders. His commitment to quality outcomes, smart solutions and business innovation is found in all aspects of his work.
Amazon in the Regrade
SEATTLE, WASHINGTON
UNITED STATES

The Amazon Spheres, three geodesic domes incorporating botanic gardens at the company’s new headquarters in Seattle’s Denny Regrade neighbourhood, bring nature into a work and meeting space for Amazon employees. WSP provided Mechanical, Electrical and Plumbing engineering, as well as lighting design and built ecology services, for Amazon’s new campus, including the Spheres. An innovative district energy system designed by WSP uses waste heat from a nearby data centre to provide heating for the campus. A custom lighting system combines LED sources and daylight sensors to provide enough light for plants inside the Spheres to thrive.

“This unusual project required significant innovation and creativity from our team. I’m immensely proud of what we achieved in service of Amazon and the architect, NBBJ.”

TOM MARSEILLE
SENIOR VICE PRESIDENT
PRINCIPAL-IN-CHARGE
Inspired by the shoot of the Spring Bamboo, a universal symbol for life and vitality, the 400-metre, 67-storey China Resources Headquarters Tower is one of China Resources’ flagship projects and a new landmark in Shenzhen Bay. WSP worked with the US-based architect Kohn Pedersen Fox as the Mechanical, Electrical, Plumbing (MEP) and Vertical Transportation System (VTS) engineering consultant, which included tender and construction stage support. The unique shape of the building and strict statutory requirements prevented the positioning of plant equipment on the roof. To meet this challenge, WSP designed multiple space-efficient plant facilities to be located on the lower floors. The smoke extraction system was positioned on the roof, as required by local regulations. In total, 60 elevators travel within the core, with additional shuttle elevators serving the upper floors.
**Parramatta Square**  
**Western Sydney, Australia**

The vision of this development is to create a vibrant mixed-use precinct that will transform Parramatta into Sydney’s second Central Business District. This is a future-focused response to urbanization and rapid population growth, which will specifically address placemaking. As the centrepiece, sites 6 and 8 Parramatta Square will become the largest commercial tower in Australia, reaching 55 storeys high. Design of the scheme is innovative, notably from a sustainability perspective; the tower is billed to meet the highest Green Star and National Australian Built Environment Rating System Energy scores of any commercial space in the country. WSP has been engaged by Walker Corporation to deliver structural and building services; specialist disciplines, including sustainability; and integrated traffic planning.

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**McInnis Cement Plant**  
**Port-Daniel-Gascons, Quebec, Canada**

The McInnis Cement Plant has an estimated annual production capacity of over two million tons per year, and is one of the largest of its kind in North America. In meeting and exceeding the highest performance standards in the world, this major industrial complex challenges the status quo with a 25% reduction in greenhouse gas emissions compared to similar facilities, and 97% less emissions of SOx and NOx. Leveraging expertise from our different divisions and regional offices in a truly multidisciplinary approach, WSP was first mandated by McInnis Cement in the project definition phase. Services at this stage included engineering studies, environmental permitting, high-level planning and estimating, detailed engineering, procurement and project and construction management. WSP also acted as Owner’s Representative during the implementation of the various McInnis Cement distribution terminals throughout North America.

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“As an economic driver for the Gaspé region of the province of Quebec, we were proud to assist our client in leading this complex project to success and shaping the communities of tomorrow.”

ALI ASHRAF  
PROJECT LEAD

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