Asset owners worldwide are continually required to optimize asset performance to meet their stakeholders’ expectations. Effective asset management is moving from a task-focused discipline to a long-term, multidisciplinary process with complex outcomes affecting every facet of an organization.

GHD Advisory’s Asset Management team works with our clients to deliver long-term organizational improvements, efficient operations and optimal outcomes in the delivery of assets.
Driving value for your business

We combine experience across every stage of the asset lifecycle providing a whole-of-life approach to deliver tangible outcomes. GHD Advisory’s Asset Management team provides:

- Practical solutions through a vertical linking of strategic, tactical and operational asset management with an emphasis on providing engineering asset solutions that drive business performance.
- Professionals across multiple disciplines, utilizing our ‘global connected network’ to provide innovative solutions.
- A focus on sustaining long-term organizational improvements and best delivery outcomes across a range of measures such as safety, social benefits, improved service and reduced cost.
- The ability to anticipate megatrends and respond to the challenges of disruptive technologies, having led the industry on technological changes and advances in asset management practice for much of our 90 year history.

GHD Advisory’s Asset Management service offering is based on a globally accepted approach to asset management, delivered across industry, public sector and commercial sectors as depicted below:
## Asset management experience

### CANADA

**Region of Peel Asset Advisory – Strategic Asset Management**

GHD was engaged by the Region of Peel to analyze the risk to delivering the level of service because of pipe failure from its water and wastewater linear assets and to support decision making related to maintenance, renewal and capital interventions. Key outcomes included:

- Identifying high, medium and low risk pipes within the Region's water and wastewater pipe networks
- Strategies to mitigate risks related to health and safety, asset failures, service disruptions, meeting regulatory requirements and spills to the natural environment as well as identifying cost of failure
- A net present value (NPV) options analysis of mitigation strategies recommended to address high risk pipes. GHD was able to quantify the 'risk buy down' of the options being considered
- A defensible and transparent approach to establishing short, medium and long term resource allocations.

### City of Barrie Asset Advisory – Strategic Asset Management

GHD has been assisting the City of Barrie since 2009 to establish an Asset Management (AM) program. In 2016, the City retained GHD to review its AM progress, update its AM strategy for the next five years and provide recommendations for an appropriate AM governance structure to guide the City's AM Strategy implementation to 2022. Key outcomes included:

- Establishing a State Of the Assets Report (SOAR) to benchmark asset performance and facilitate communication with the City's Council and the Public
- A gap analysis in line with the ISO 55000 Standard for AM to identify opportunities to improve AM maturity related to people, processes, data and technology
- Providing recommendations for an AM governance model to support ongoing implementation and sustenance of the City's AM Program and culture as well as updating the City's AM Strategy to 2022.

### USA

**New York City Metropolitan Transportation Authority (MTA)**

MTA Bridges & Tunnels (B&T) is actively developing its capability in AM. The agency has a stretch target of achieving competency with all aspects of ISO 55000 by the end of 2018, with a longer-term goal of excellence by 2020. B&T has adopted a new business model proposed by GHD, designed to transform the agency into a world class organization which concentrates on three key performance areas: Customer Service, Revenue Collection and Safety. GHD’s prior performance of an ISO 55000 gap assessment supported B&T’s increase in AM knowledge and capability.

Working with the agency since 2013, GHD has delivered a series of foundation projects to commence the implementation of B&T’s AM improvement program; including arrangements to gain executive support and establish leadership for the emerging AM program.

GHD is providing technical support to establish cross-functional teams, provide technical input, coaching, training and business process improvement. GHD developed a presidential policy and established an integrated business risk program. Establishing an AM information system architecture was key in improving the sharing of asset data across systems, allowing for strategic and tactical decision-making.

**Madison Metropolitan Sewerage District (MMSD)**

GHD was retained by the Madison Metropolitan Sewerage District (MMSD) through a competitive request for proposal process to further develop their Sustainable Asset Management (SAM) Program and to further developing the program for implementation.

The initial phase established a SAM framework to support MMSD’s ability to set priorities and make improved decisions. The SAMF addressed appropriate strategies and practices to determine asset failure modes, condition assessment, risk exposure, levels of service, life expectancy/residual life and replacement costs and change management, training, and education approach and practices along with organizational structure recommendations. The framework was piloted with a subset of MMSD’s assets.

GHD is currently working on developing an Asset Management Plan (AMP) for MMSD’s 42 MGD Nine Springs Wastewater Treatment Plant based on the findings of the pilot results. The AMP development effort is focusing on activities beyond the traditional contents of an AMP and includes the development of “as-is” and “to-be” maintenance business processes, and a RASIC matrix, among other initiatives such as improving the management of spare parts.
For more information about how GHD Advisory can drive value for your business, email us at advisory@ghd.com or contact:

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