Since newly developed countries in Asia such as South Korea and China initiated contaminated site related regulations and remediation programs in the early 2000s, heavily engineered and high capital cost based ex-situ remediation technologies such as thermal desorption, soil washing and/or pump and treat type technologies have been widely used for to address the large volumes of contaminated soil, groundwater and/or source material. However, with an ever increasing emphasis on sustainable remediation practices, contaminated site stakeholders in those countries are under increasing pressure to select more sustainable and innovative in-situ remedial solutions to minimize the environmental footprints often associated with massive soil excavation or groundwater diversion and remediation processes related to ex-situ treatment programs. As such there is a demand for the adaptation of a diverse number of advanced in-situ remediation approaches and the markets often look for cooperation with remediation companies from foreign markets where various project experiences and advanced techniques have been learned.

Since 2007, TRIUM’s market expansion and pursuit of self-innovation, has allowed us to obtain valuable lessons and experience through numerous in-situ remediation projects in South Korea and China. In this presentation, several case studies of sustainable in-situ projects will be presented along with project management challenges such as different culture, regulatory framework, project award and contract system, project financial risks, procurement and human resources as well as competition with local companies. Also it will be discussed how those project / business challenges and risks were mitigated and/or overcome and what benefit and influence they have had on our approaches to market, innovation and technology advancements in Canada.

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