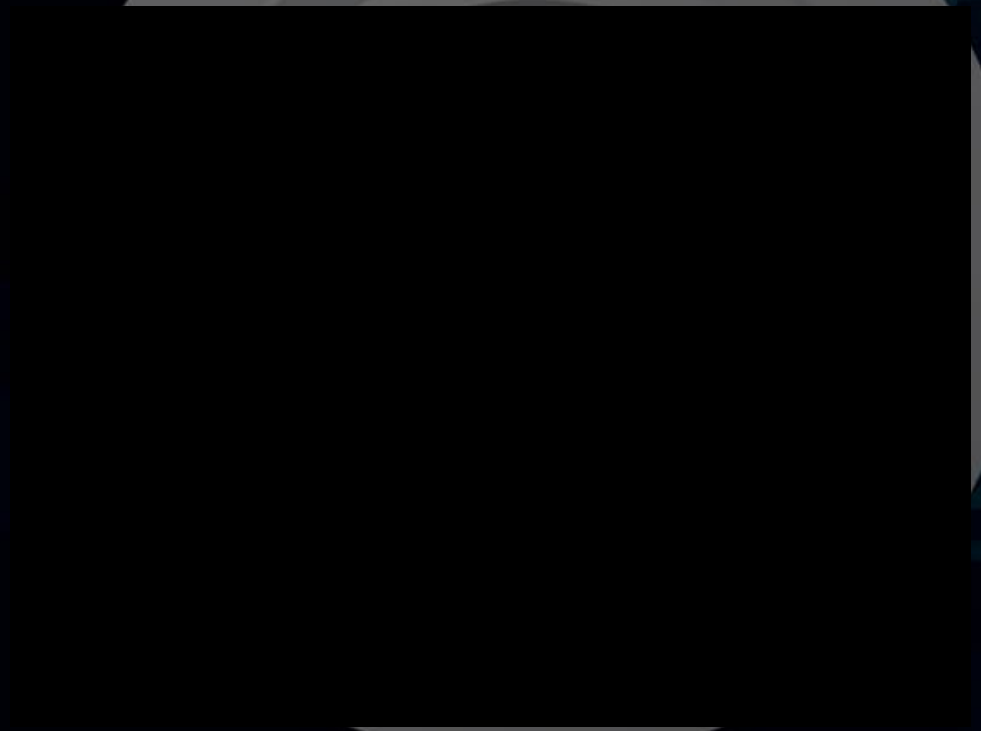
digital
A Member of the Gammon Group
CITF 建造業創科基金

Applicant Name: Digital G
Product Name: GEOMON
(PA20-047)
Specification: Data Management Platform



- Core Functions: Data Management Platform
- Technology Used: SaaS
- Construction Process involved:
  1)Typical Screen Shots – Mapping
  2) Typical Screen Shots – Graphs / Reports
  3) Data Import Options and Formats
  4) Data Export Option

- Key Improvement in Construction Process:
  - Productivity
  - Quality

Job Reference:

[CEDD@Mid-levels project for landslide detection, adoption, 2019]

[Lyric Theatre 20m Deep Basement, adoption, 2020]

[Advanced Manufacturing Centre (AMC) Project, TKO, adoption, 2021]

Innovative Features

- Core Technology

  SaaS

- Comparison with current practice and popular models

  Benefits: Geomon was developed for storage visualization of geotechnical instrumentation data particular for large and complex projects. Instrument locations can be shown by small circles colored and indicate the alarm status of instrument

- Comparison with similar Pre-approved list products and competitors:

  Technology: can be integrated with different IOT sensors e.g.camera nodes/ vibration sensors/ smart meter/ tilt sensor etc…with 24/ 7 monitoring

- First Launch Date: 2004

Adoption Example

- Projects for Illustration: GEO Slope at Conduit Road
- Work Process: Slope stability monitoring
- Use/ Function in project:

  Integrated laser distance sensors and camera nodes with Geomon data platform, provides 24/ 7 monitoring on slope stability and setting alerts when there is any changes

Benefits– Quality

- Improve quality by:

  Error reduction- less human error by integrated all data into one system

  Reliability increased- data stored and professionally managed by Gammon's data centre

  Better workmanship- Geomon does not limit number of user accessing to the website

  Increase alarm response level- alert can be settled so contingency actions can be implemented

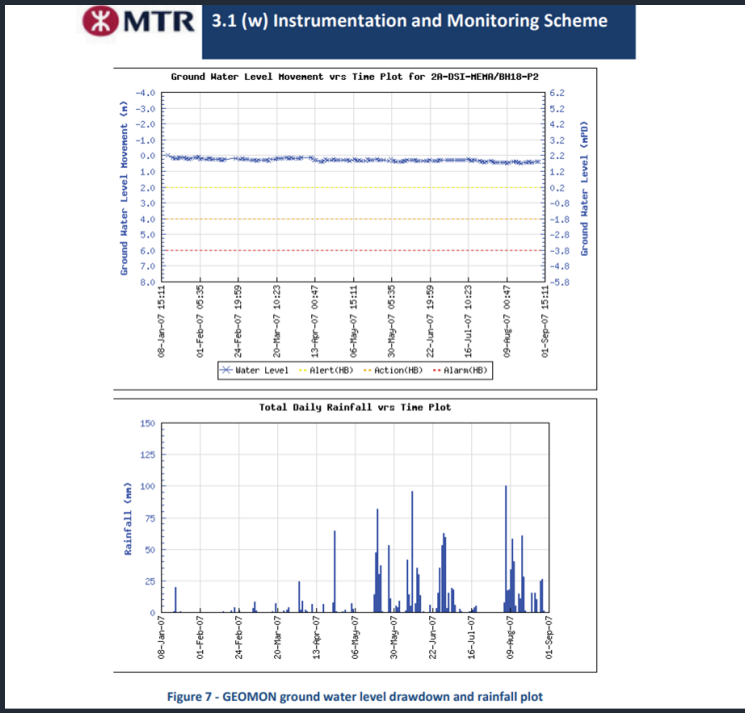


Figure 7 - GEOMON ground water level drawdown and rainfall plot

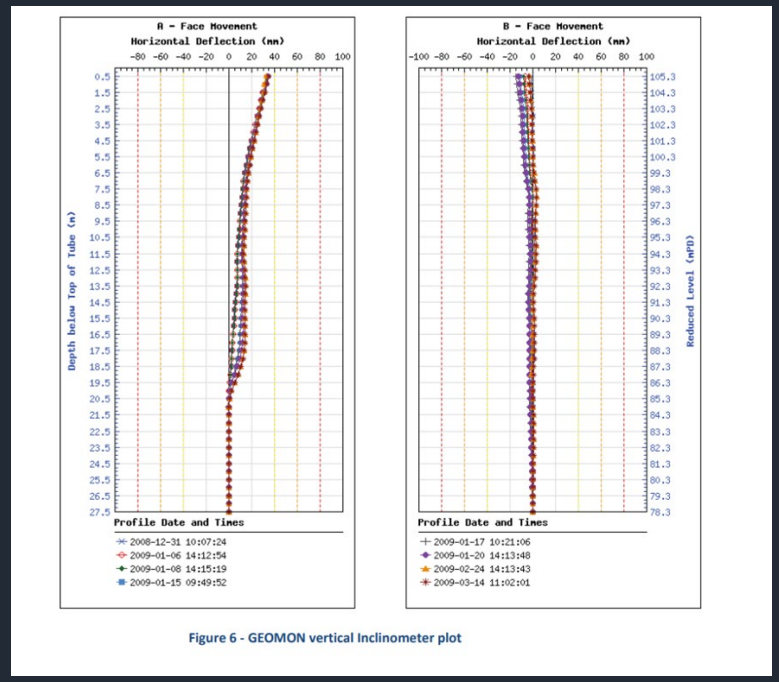


Figure 6 - GEOMON vertical Inclinometer plot