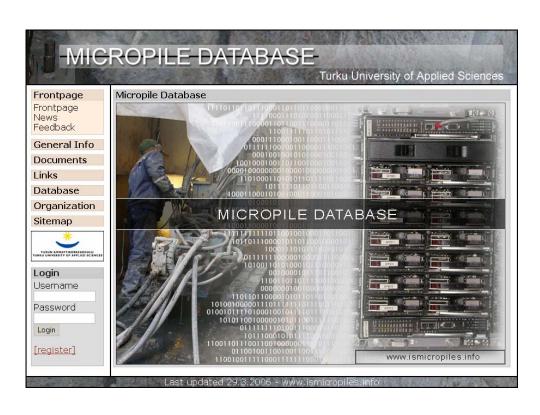
# MICROPILE DATABASE

 Jouko Lehtonen project manager

 Ville Hyyppä researcher

 Jussi Hattara project assistant



www.ismicropiles.info

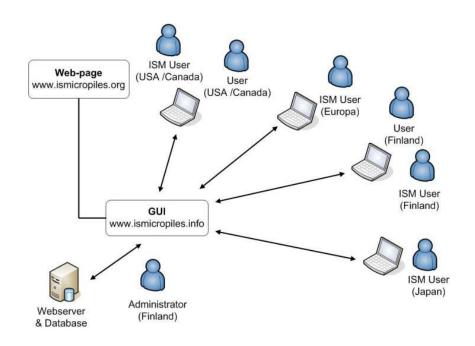


# WHAT IS MIDA?

 International database on micropile load tests

Utilizes World Wide Web

 MIDA project is linked to the DATU project





# DATU







#### **DATU**

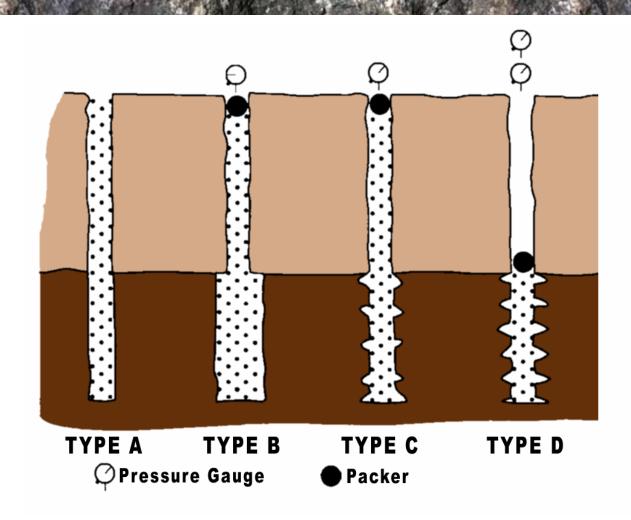
DATABASE ON TURKU UNDERPINNING PROJECTS





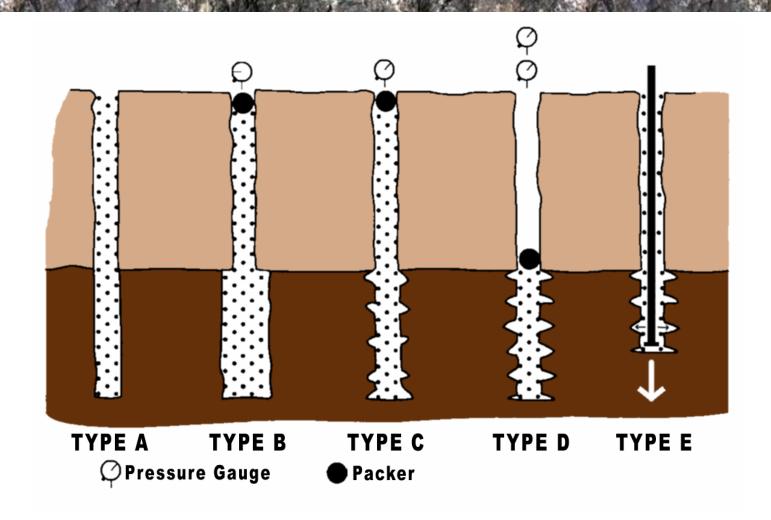


## TYPE A - D





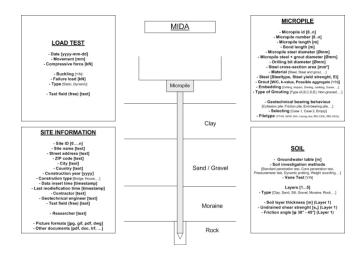
# TYPE E (PROPOSAL)

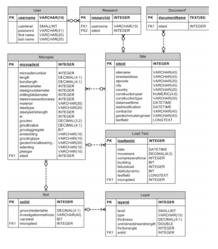




# DATABASE STRUCTURE

- Database consists of five main tables
  - site, micropile,loadtest, soil, layer
- 50 parameters
- Option to add external documents (e.g. images) into database

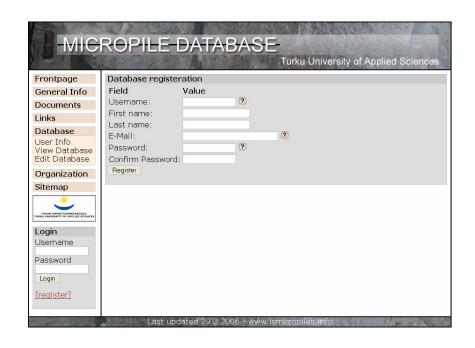






# **GUI: REGISTRATION**

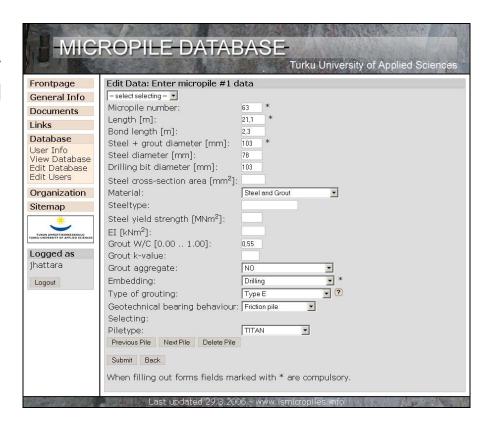
- Fill out the form
- Press 'Register' button
- Notification will be sent to administrators
- Account will be activated within few days
- Start using database





### **GUI: INSERTING DATA**

- After logging into the database you may add a new case or edit existing data
- Fill out forms and press 'Submit'
- Fields marked with \* are compulsory
- Site information 5 min
- Micropile information approx. 10 minutes / pile

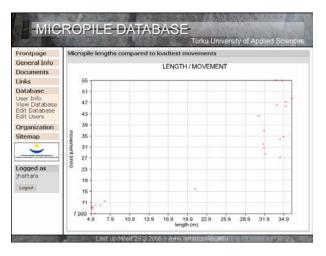




# **GUI: OUTPUT**

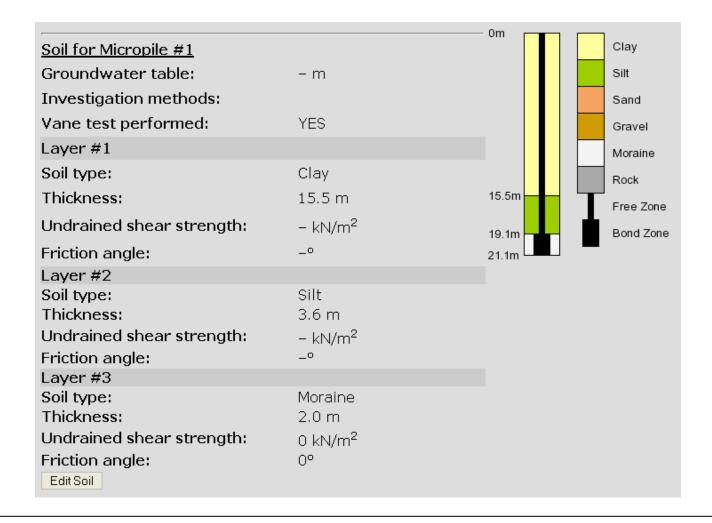
- Database is accessed with any Internet browser
  - (e.g. Internet Explorer, Firefox, Opera)
- Graphical and textual representations are generated from the database







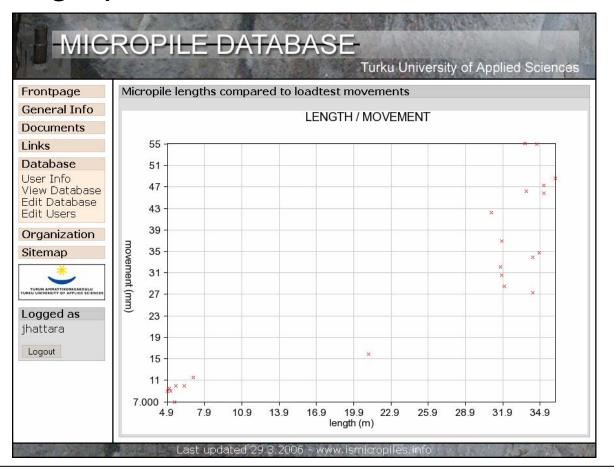
# **GUI: VISUALIZATION**





# GUI: VISUALIZATION

#### Example graph





# MIDA WORKSHOP

- 2 Laptops with server access
- Database includes few cases
- Participants will have the opportunity to be instructed in the use of database



# SECURITY

- All data communicated between MIDA server and user client is secured
- Database connection is secured with SSL encryption using https-protocol
- SSL certificate is currently a self-made temporary certificate, which will be replaced with an official certificate once the project gets properly under the way



# SUMMARY

- Two researchers, total 14 months (2005-2006)
- Usability has been an essential part in development
- Development of MIDA will be continued based on feedback by ISM

