

WORLD NUCLEAR EXHIBITION



INNOVATION PROGRAM 04-06 NOVEMBER 2025 PARIS

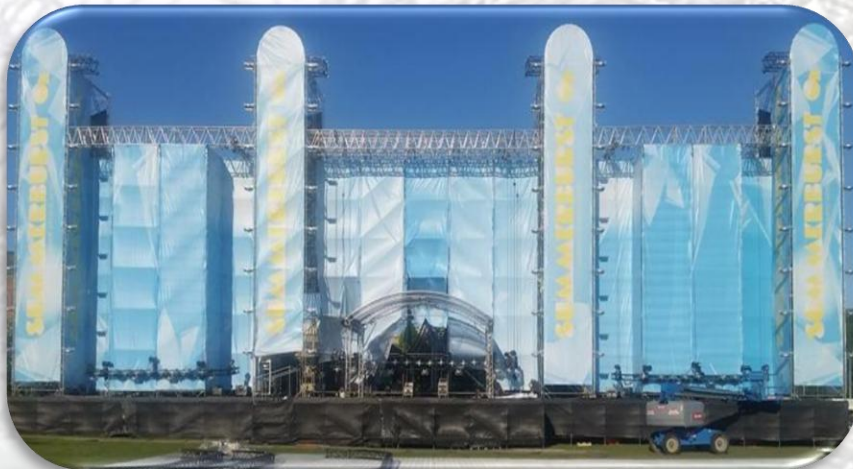
USE OF SCAFFOLDING STRUCTURES

- CONVECTIONAL POWER PLANTS
- NUCLEAR POWER PLANTS
- HEATING PLANTS
- BIOMASS INCINERATORS
- REFINERIES AND PETROCHEMISTRY
- LNG TERMINALS
- SHIPYARDS, STEELWORKS, MINES



USE OF SCAFFOLDING STRUCTURES

- **CHEMICAL FACTORIES**
- **CELLULOSE FACTORIES**
- **SCHIPBOARD AND PLYWOOD FACTORIES**
- **CONSTRUCTION**
- **INFRASTRUCTURE**
- **STAGES AND STANDS**
- **NON-TYPICAL STRUCTURES**





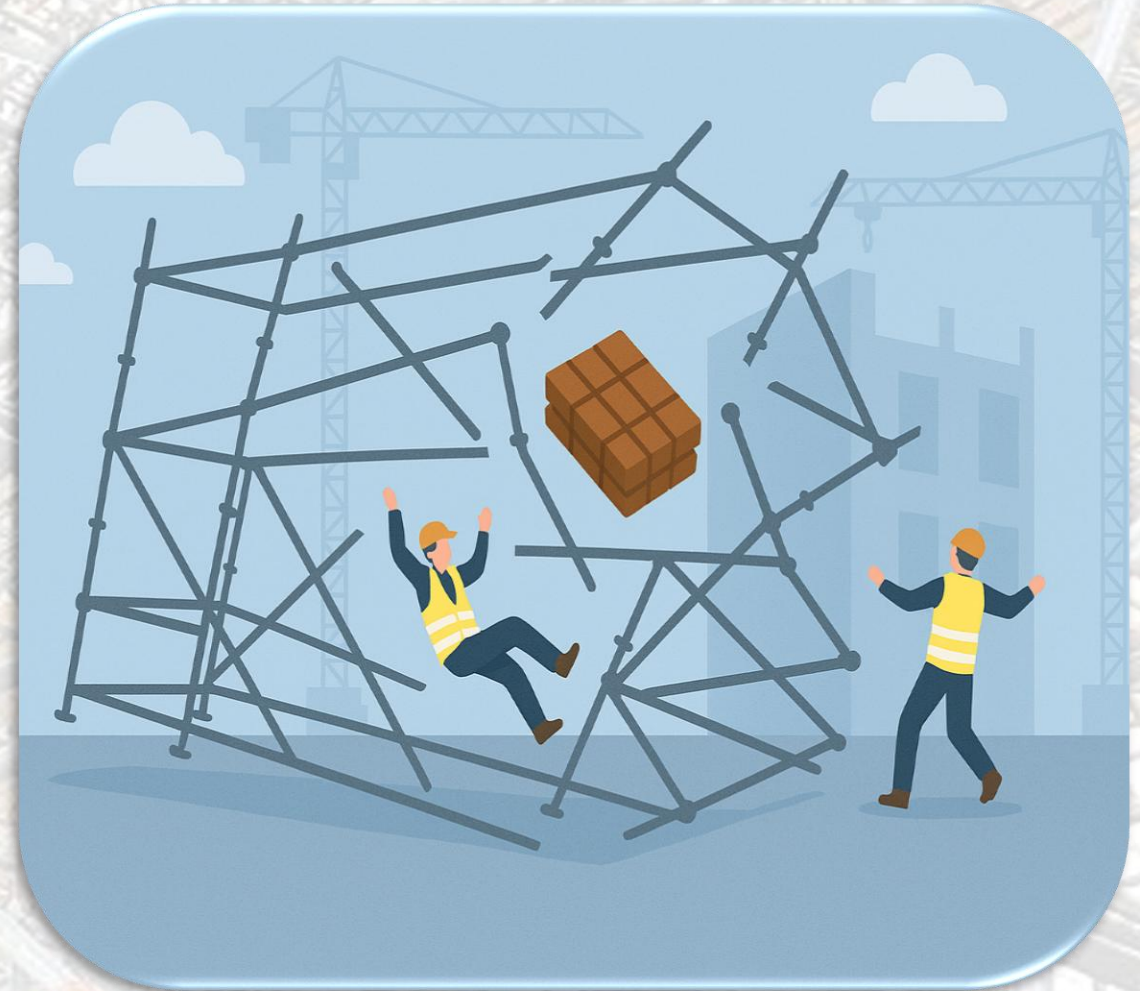
DEFINING THE PROBLEM

Scaffolding related accidents are among the most common causes of injuries and deaths in the construction industry.

They account for up to **70% of all fatalities** at **construction sites in developing countries** like Malaysia*, and still at least **12% in developed countries** like Poland**.

Each year, construction companies lose **billions** of euros and countless labor hours due to not only such scaffolding-related fatalities and injuries, but also to scaffolding related **compliance issues, project delays, damages to equipment** and property.

There are currently no available solutions for monitoring scaffold loads to prevent accidents. Current solutions for managing scaffold structure, inventory, working hours and utilization rates are not integrated, causing **inefficiencies** and **high administrative costs** by using different tools.



*Olanrewaju et al. (2021). An investigation into occupational health and safety of scaffolding practices on construction sites in Malaysia. Frontiers in Engineering and Built Environment. <http://dx.doi.org/10.1108/FEBE-08-2021-0037>

** Sawicki, M., & Szóstak, M. (2020). Quantitative Assessment of the State of Threat of Working on Construction Scaffolding. International journal of environmental research and public health <https://doi.org/10.3390/ijerph17165773>



1. PERSONAL AND FAMILY

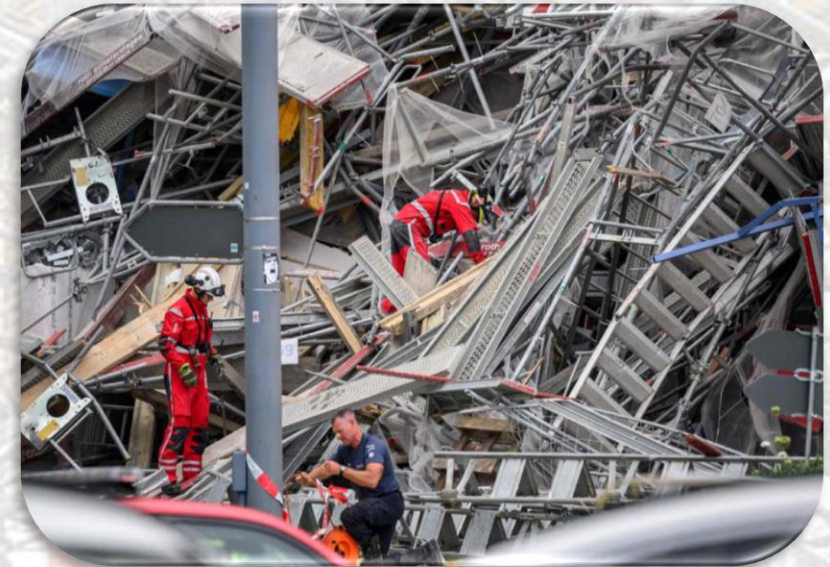
- Fatal cases
- Serious bodily injuries
- Treatment and rehabilitation

2. PERSONAL AND PROFESSIONAL

- Control proceedings (e.g.: PIP)
- Explanatory proceedings (e.g.: Prosecutor's Office)
- Court proceedings

3. SOCIAL

- Involvement of rescue and medical services
- Coverage of the costs of incapacity for work
- Coverage of the costs of treatment and rehabilitation
- Coverage of the costs of explanatory proceedings



4. PRODUCTION AND ECONOMIC

- Suspension of work on the project
- Suspension of the manufacturing or production proces
- Damage to the facility, structure, installation
- Destuction of scaffolding elements
- Other property damage, compensation
- High accident insurance
- High company insurance premiums
- Costs of preparing and implementing repair programs



5. COMPANY IMAGE IN THE MARKET

- Participation in tenders
- Working as part of a consortium
- Collaboration with clients
- Collaboration with subcontractors
- Employment problems



Scaff Load S.A. has developed the **first patented**, comprehensive device and software system designed to **digitalize load monitoring, supervision, alarming and management of scaffolding structures** at every stage of assembly and use.

The **intelligent Scaff Load system** provides real-time monitoring and warnings and enables compliance with construction site regulations, increasing **safety and security** while reducing costs by reducing the risk of accidents, theft, administration and downtime.

The system can **send alerts and alarms** regarding overload, reduced loads, possible unauthorized dismantling, unauthorized entry and use outside the schedule. It enables **more efficient use** and management thanks to reports on use by different users, downtime and load.



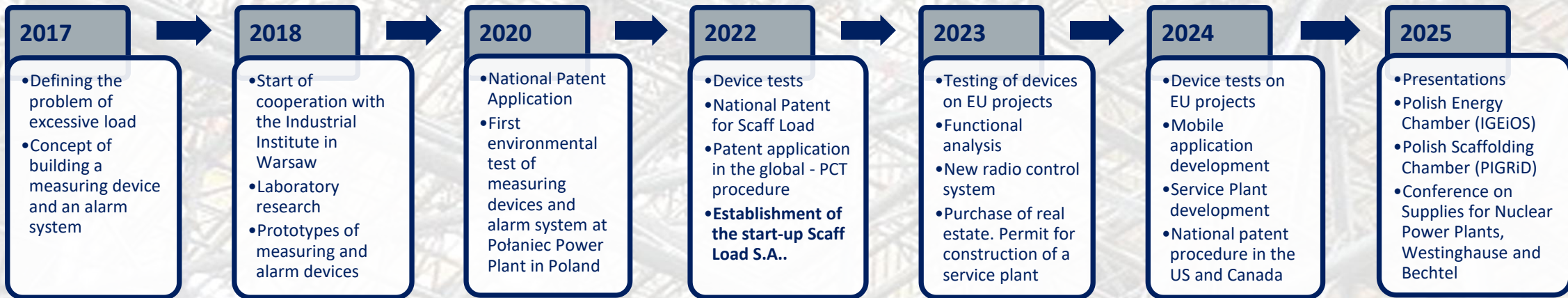
ScaffLoad

- **PROCESS MANAGEMENT**
- **WORKERS' PROTECTION**
- **STRUCTURE SAFETY**
- **LOAD MONITORING**
- **TECHNICAL SUPERVISION**
- **EFFICIENCY, OPTIMIZATION**
- **SETTLING ALGORITHMS**
- **USAGE REPORTS**
- **DATABASE**

MAIN STAGES OF DEVELOPMENT

IDEA, RESEARCH, LABORATORY TESTS

START UP, ENVIRONMENTAL TESTING, APPLICATION DEVELOPMENT



PATENT PROTECTION

PATENT OFFICE OF THE REPUBLIC OF POLAND NATIONAL PATENT NO. P.43524304.11.2022



NATIONAL PATENT PROCEDURESUSA AND CANADA



PCT APPLICATION INTERNATIONAL PATENT COOPERATION TREATY



POSITIVE OPINION OF THE EUROPEAN PATENT OFFICE

DEVICE PROTOTYPES - FIELD TESTED, EASY TO TRANSPORT AND INSTALL



TRANSPORT



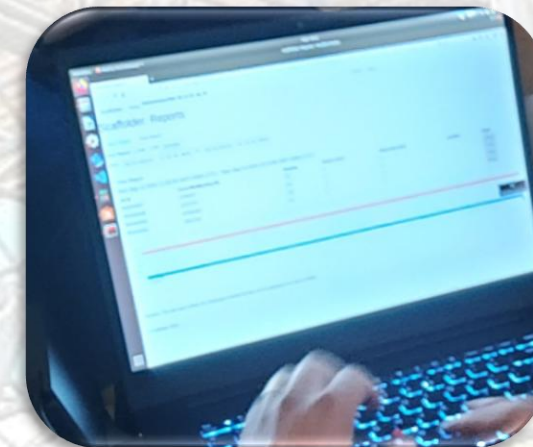
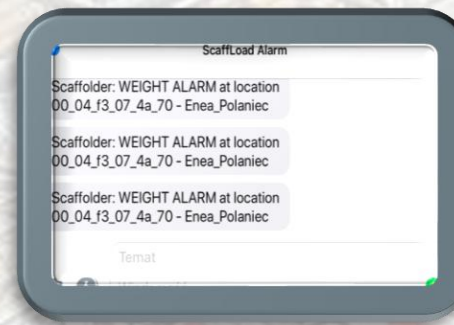
INSTALLATION



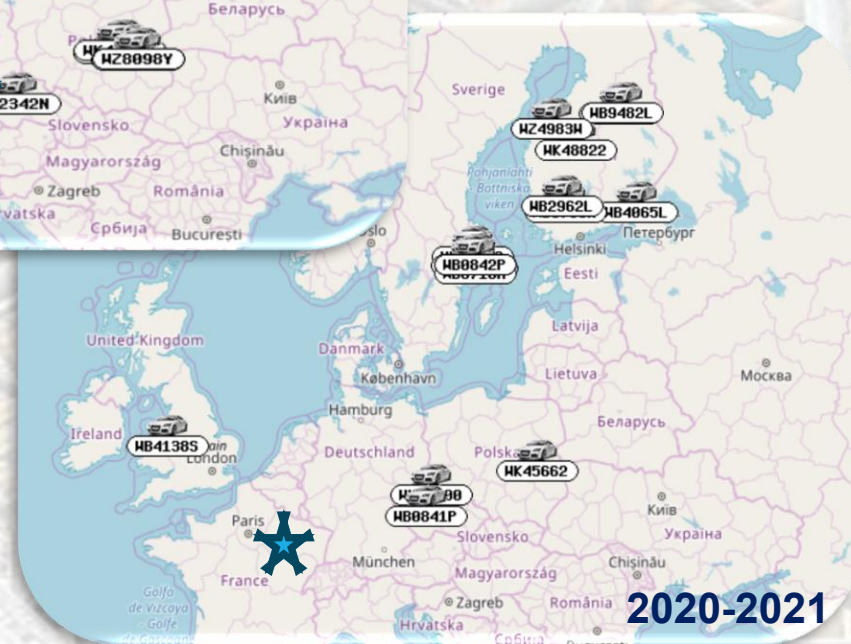
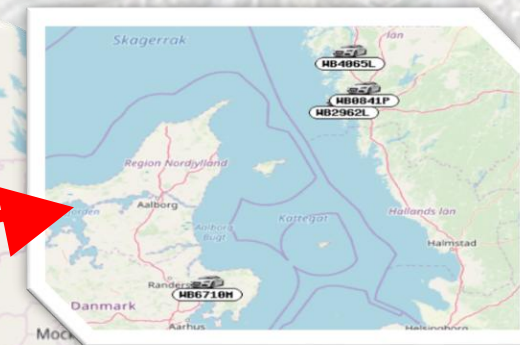
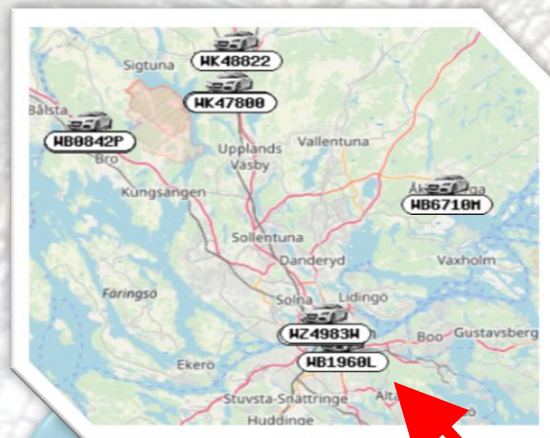
OPERATION



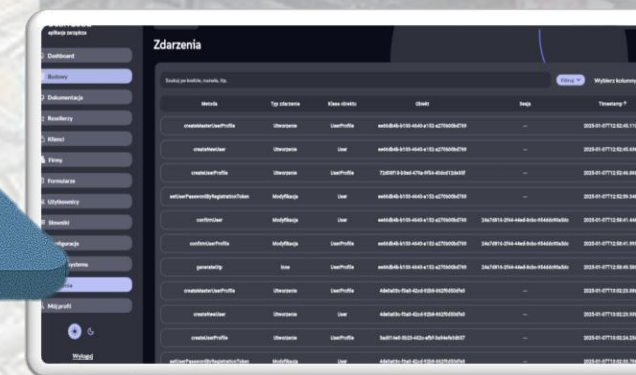
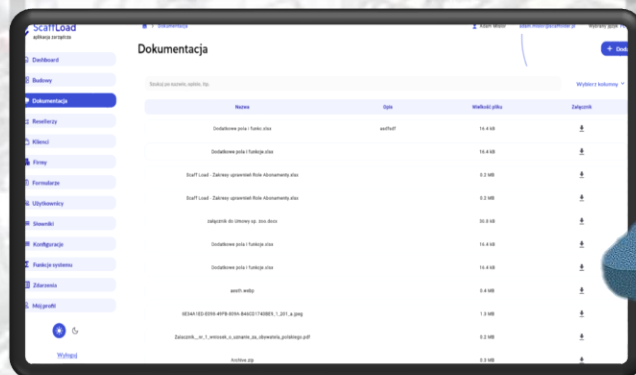
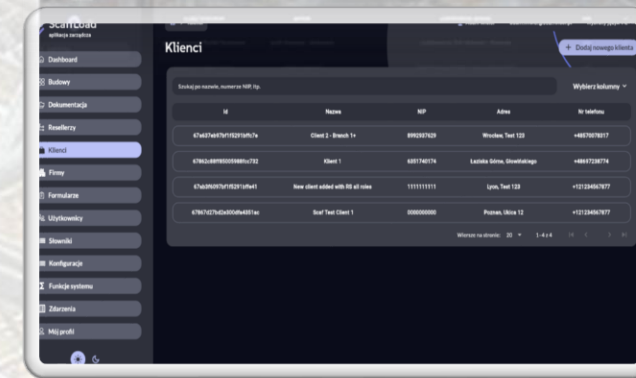
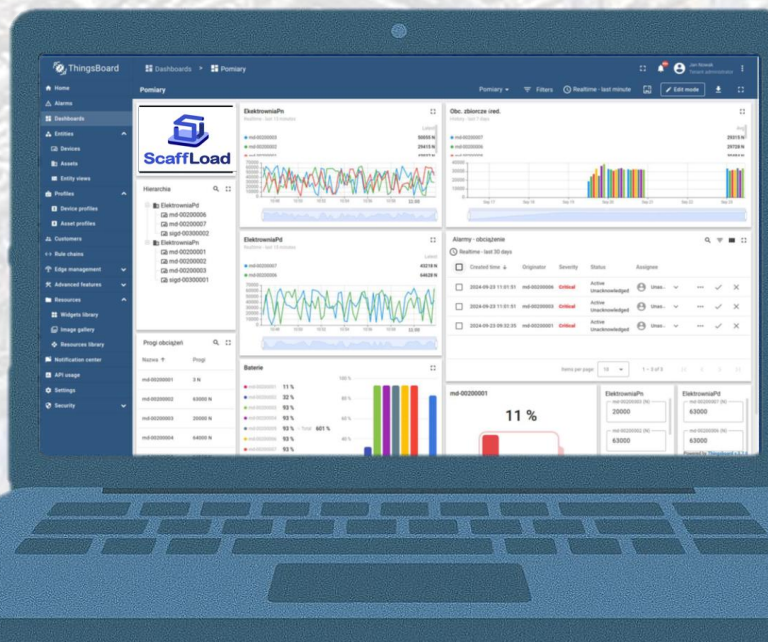
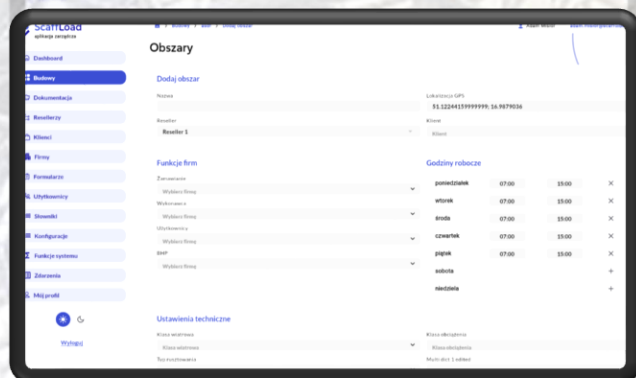
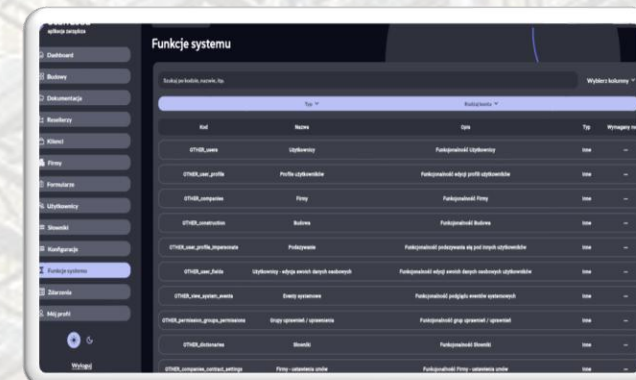
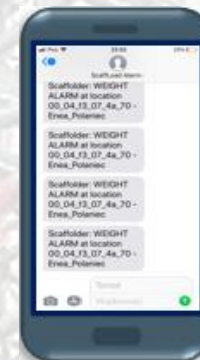
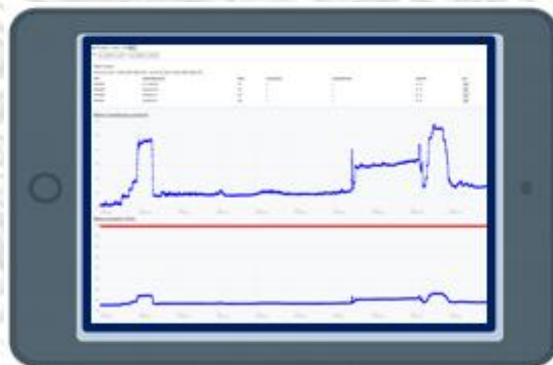
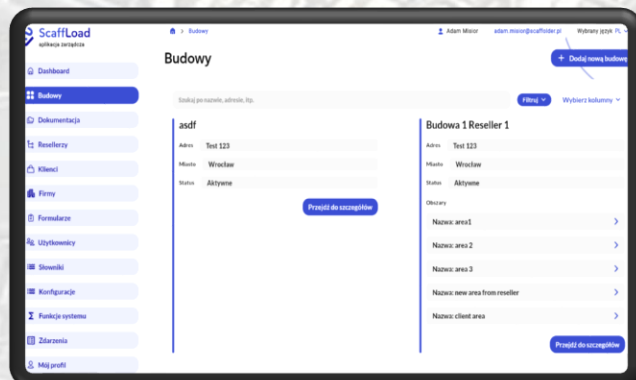
ALARM SYSTEM ARCHITECTURE

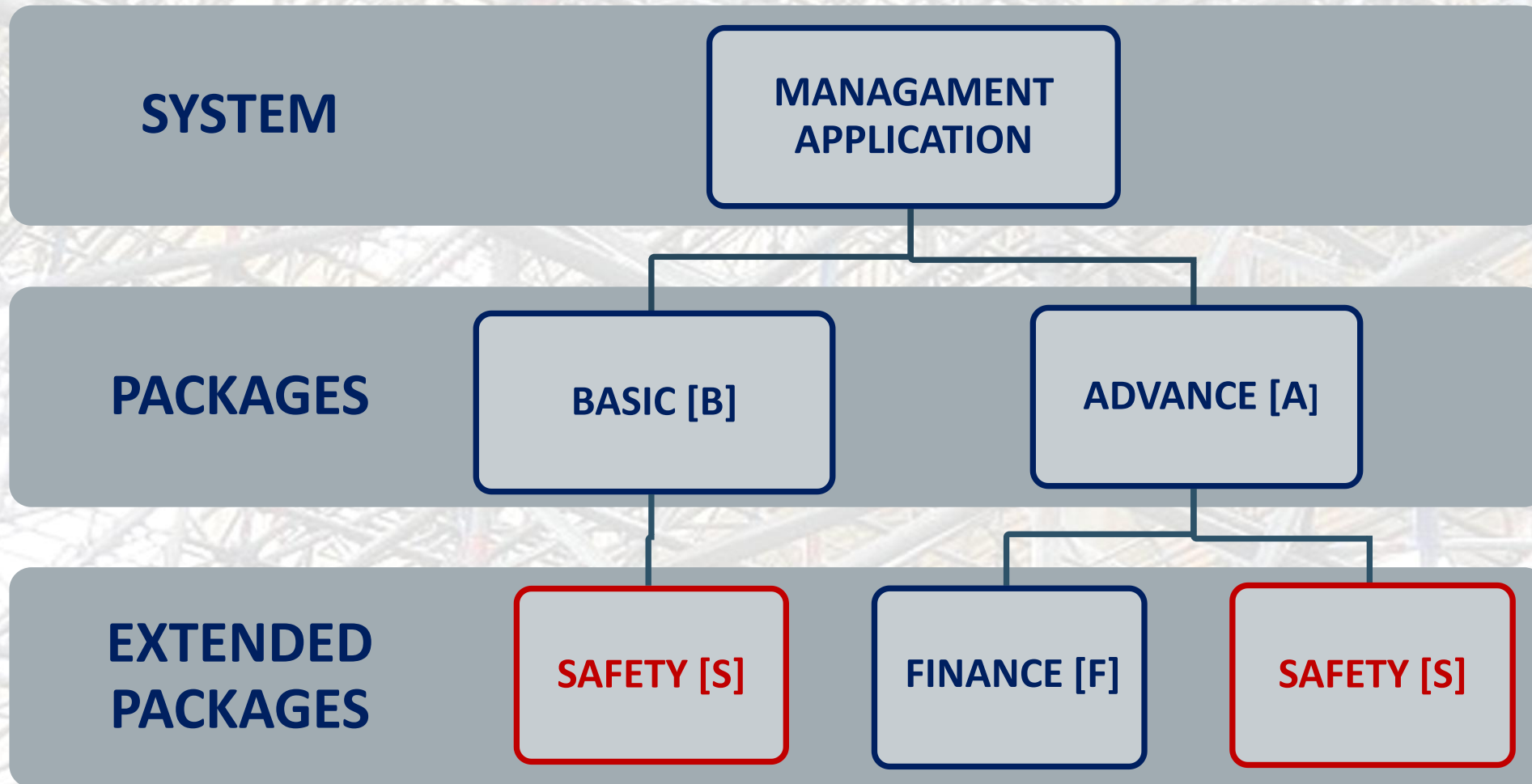


ENVIRONMENTAL TESTING OF DEVICES ON PROJECTS IN EUROPE



MANAGEMENT APPLICATION - PC AND MOBILE DEVICES IOS AND ANDROID







CONSTRUCTION OF A SERVICE PLANT AND COOPERATION

BUDOWA ZAKŁADU USŁUG

Stoczek Łukowski
Woj. Lubelskie
Warszawa – 80 km.
Siedlce – 30 km.
Lublin – 120 km.



STOCZEK ŁUKOWSKI - CONSTRUCTION PROGRESS CURRENT 05/2025

COOPERATION IN THE FIELD OF

RESEARCH AND DEVELOPMENT OF THE SECURITY SYSTEM

Łukasiewicz Research Network

Industrial Institute of Automation and Measurements

ENVIRONMENTAL TESTS OF DEVICES

Scaffolder Polska Company

AssenScaff Oy Finland

Libergs Sweden A.B.

Comach Company

FUNCTIONAL ANALYSIS FOR MANAGEMENT APPLICATION

EXDIRO Company

IDEO Company

CONSTRUCTION OF MANAGEMENT APPLICATION

EXDIRO Company

PELC CONSULT GmbH

CONSULTATIONS, OPINIONS, SOLUTION PRESENTATIONS - POLAND

CIOF Central Institute for Labor Protection (2022 Competition)

IGEiOŚ (Chamber of Commerce for Energy and Environmental Protection)

Agreement for Safety in Construction Chief

Labor Inspector Department of Control and Supervision

PIGRiD (Polish Chamber of Commerce for Scaffolding and Formwork)

SAFE EMPLOYEE - RESPONSIBLE EMPLOYER



SCAFF LOAD APPLICATION AND SYSTEM IS AT YOUR DISPOSAL

www.scaff-load.com e-mail; info@scaff-load.com

OFFICE, WARSAW, POSAG 7 PANIEN 1B, POLAND

(DIAMOND BUISNESS PARK)

THANK YOU FOR YOUR ATTENTION