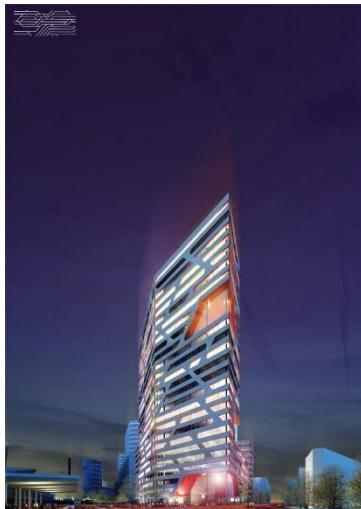


80 YEARS

80 YEARS



INROS LACKNER.
Consulting Engineers & Architects

Southeast Asia

1936 Prof. Dr. Agatz published a textbook for elementary and seminal for hydraulic engineering entitled The Battle of the Engineer to Earth and Water in Foundation

1937 First international contract, expansion of the seaport in Bangkok, Thailand

2002 Foundation of Inros Lackner Cambodia

2004 First project in Vietnam, the National Convention Centre Hanoi, Vietnam (joint venture with gmp)

2008 Foundation of Inros Lackner Vietnam LLC

2015 Completion of National Assembly House in Hanoi



1936-1944
Agatz & Bock
Engineering Office
Berlin and Cologne

1945-1949
Prof. Dr. Agatz
Engineering Office Bremen

1949-1970
Engineering Office Prof. Dr. Agatz Nachf.
Bremen

1971-1975
Dr. Lackner-Dr.
Kranz-Barth,
Consulting Engineers

1976-1997
Prof. Dr. Lackner & Partners
Consulting Engineers GmbH &
Co. KG

1997-2003
Prof. Dr. Lackner and Partner
GmbH

1950-1967
Branch Office Rostock of the VEB
Industrial Design Stralsund

1968-1989
VEB Industrial Constructions Rostock,
Branch Industrial Planning Rostock

1990-2003
INROS Planungsgesellschaft mbH

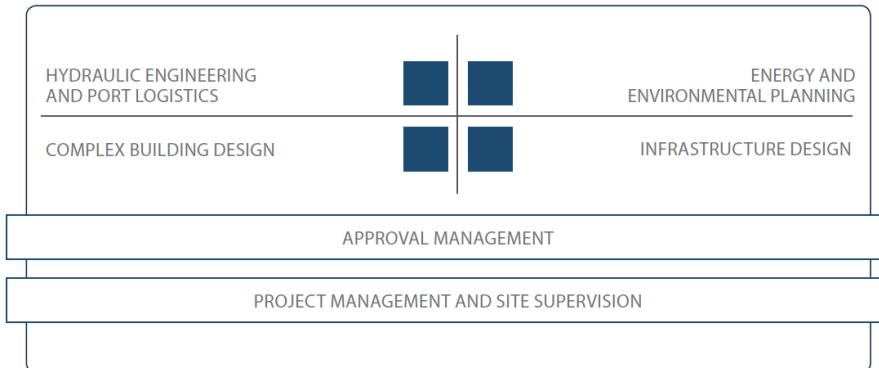
1992-2003
INROS Building and Planning
Consultant GmbH

1994-2003
Engineering Office Koldrack,
Bernhardt and Partners GmbH

2001-2003
INROS LACKNER
Consulting Group GmbH

Since 2004
INROS LACKNER AG.
Berater, Planer, Architekten, Ingenieure

Since 2014
INROS LACKNER SE.
Consulting Engineers & Architects



Employees

A prerequisite of successful development is a high professional qualification. Experience is passed on and expanded. Today, over 600 employees work at more than 20 national and international locations and are responsible for the development and implementation of projects. They use consolidated, in-depth technical and specialist knowledge that ultimately is the key to success. Education and training play, therefore, an important role, as does promoting intercultural education as well as team and communication skills.

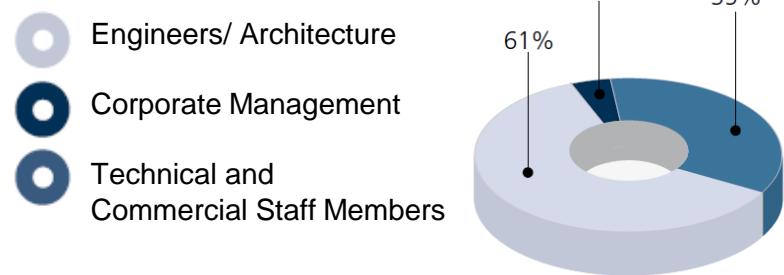


Quality management

Guaranteeing quality is a continuous process. Our internal quality management system is certified in accordance with DIN EN ISO 9001-2008

Design from a single source

We offer a wide range of expertise, which has continuously been expanded throughout the company history. We provide services in the fields of hydraulic engineering and port logistics, integrated building design, energy and environmental design and infrastructure design.



"The quality of our design is based on connecting multiple key competences from the areas of structural, hydraulic, transportation and civil engineering as well as approval and project management"

il Locations and affiliated companies

The decentralized company structure with numerous locations, affiliated companies and international offices combines local expertise and international knowhow.

**il** International offices

INROS LACKNER (CAMBODIA) CO LTD (ILKH) is an affiliated company of **INROS LACKNER SE** of Germany. ILKH was founded in 2002 in Phnom Penh and is an 100% foreign owned company under the investment law of Cambodia.

ILKH has been providing civil and structural engineering services to public and private sector clients in Cambodia, Vietnam and Germany and currently employs 40 engineers and technicians.

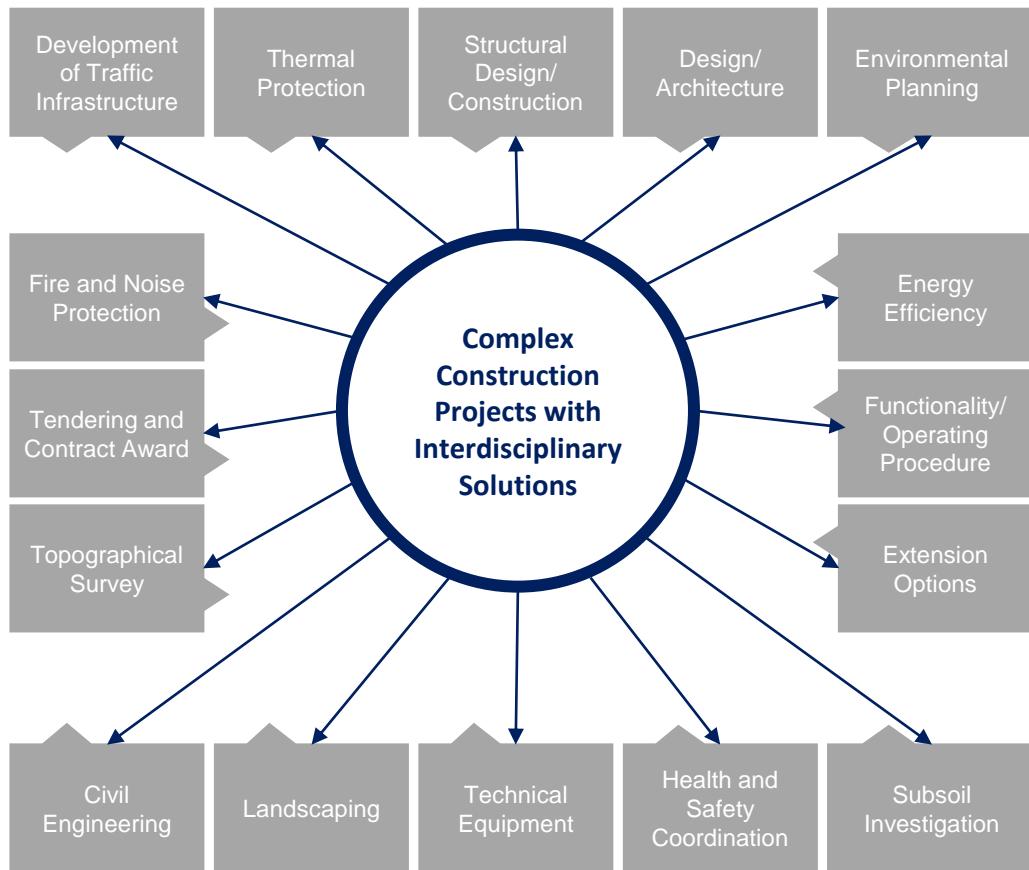
INROS LACKNER VIETNAM LLC (ILVN) was established in 2008 under the Investment Law of Vietnam as a 100% foreign invested company by its sole Investor **INROS LACKNER SE**, Germany. ILVN has been providing architectural and mechanical & electrical design and supervision services for projects in Vietnam, Cambodia and Germany. ILVN currently employs 35 architects and engineers.

The combined experience and expertise of **INROS LACKNER SE**, **INROS LACKNER VIETNAM** and **INROS LACKNER CAMBODIA** puts us in the position to offer a wide range of engineering consultancy services in Asia.

The services provided by **INROS LACKNER** include:

-  **Architectural design & supervision services**
 -  **Civil and structural design & supervision services**
 -  **MEP design and supervision services**
 -  **Topographic Survey and Digital Terrain Modelling**
 -  **Geotechnical Investigation**
 -  **Pile Testing**
- Industrial/ Commercial buildings
 - High-rise buildings/Residential buildings/Office buildings/Hotels
 - Convention/ Exhibition
 - Hospital buildings
 - Institutes/ Laboratories
 - Educational buildings
 - Sport facilities

il Specialized and master planning



il Hydraulic engineering and port logistics

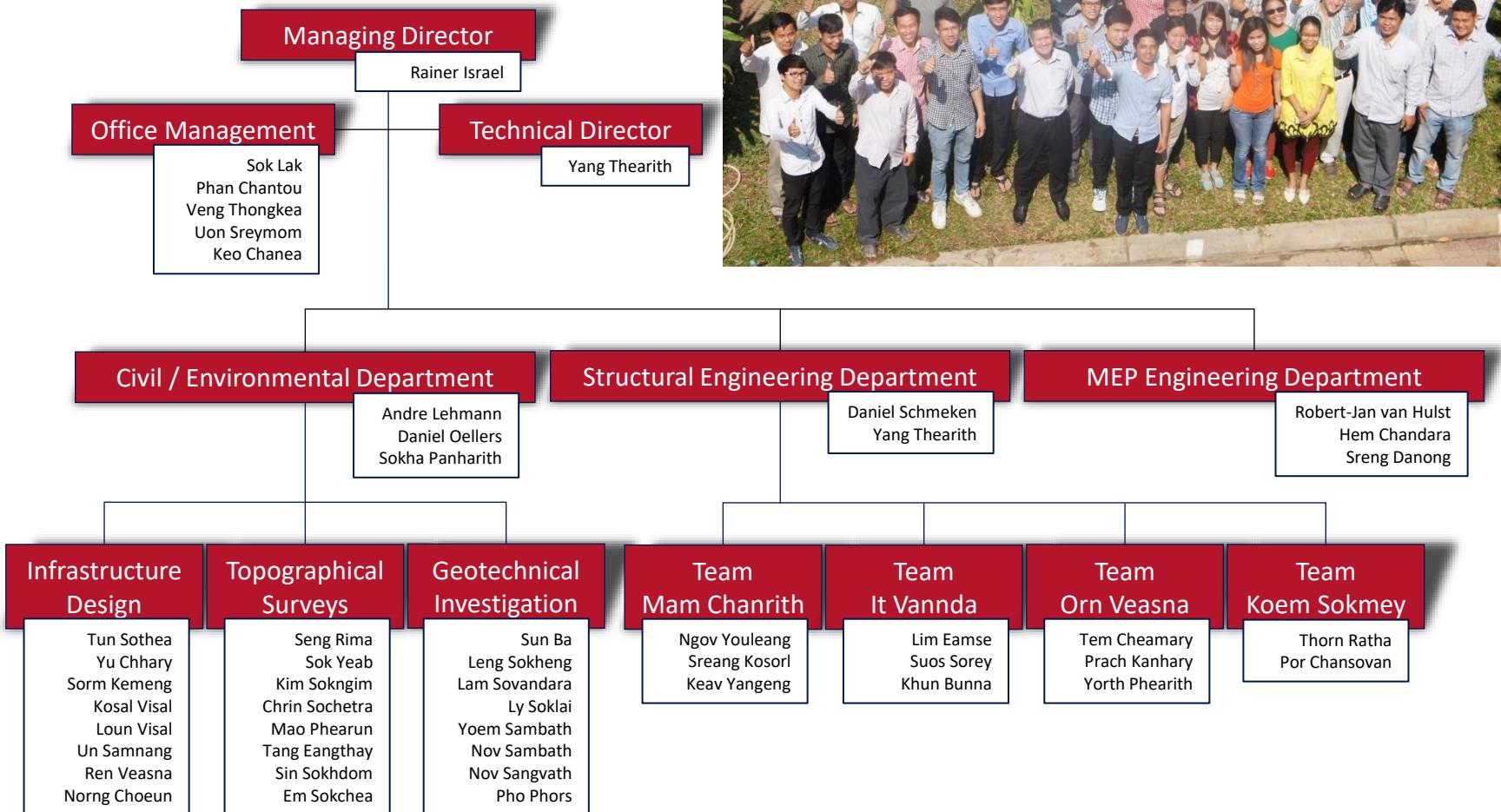
- Seaports and River ports
- Flood Protection / Dykes
- Inland waterways
- Flood retention basins
- Locks/ Weirs/ Barrages
- Marinas/ Jetties
- Shipyards
- Breakwaters
- Transshipment platforms
- Offshore structures
- Coastal protection structures

il Integrated building design

il Energy and environmental planning

il Project management and site supervision

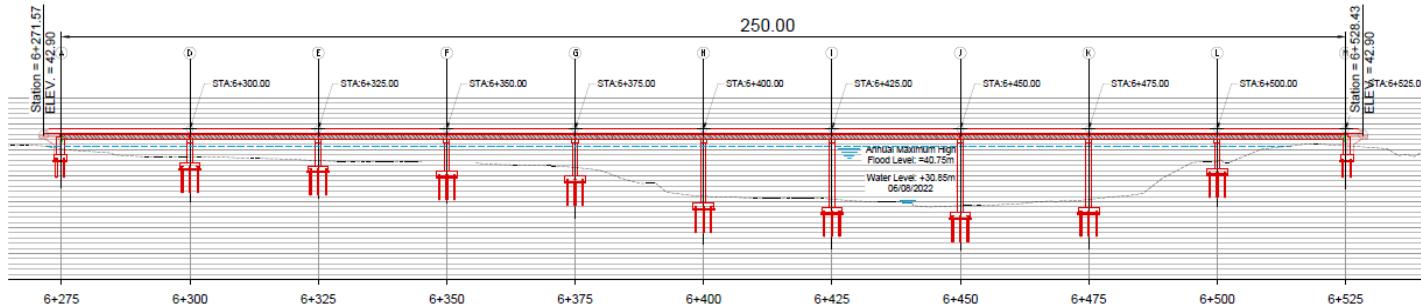
il Infrastructure design



Selected Civil Engineering References Cambodia

Rural Infrastructure Development for Cambodia

RID4CAM
Cambodia



Project

Rehabilitation of 550 km of roads and bridges in five provinces, Construction of two community piped water supply schemes with 1,800 household connections, each

Client

Royal Government of Cambodia, Ministry of Rural Development

Finance Agencies

KfW / AFD / EU-AIF

Implementation

2021 - 2026

Scope of Service

Socio-economic studies, Topographic surveys, Geotechnical investigations, Hydrological studies, Detailed design, Preparation of bid documents, Site supervision road works, Environmental & social safeguard

Total Investment

EUR 125,000,000

National Water Resources Data Management Center Cambodia



Project
Construction of a five-story office building with a floor area of 8,880 m²

Client
Royal Government of Cambodia,
Ministry Water Resources and
Meteorology

Finance Agency
ADB Loan No. 3877-CAM

Implementation
2022 - 2024

Scope of Service
Structural building design
Preparation of tender documents
Supervision of structural works

Total Investment
US\$ 7,500,000



Techo International Airport

Phnom Penh, Cambodia

Project Description:

Construction of a 4F-class airport on an area of 2,600 hectares in the Kandal Province south of Phnom Penh.

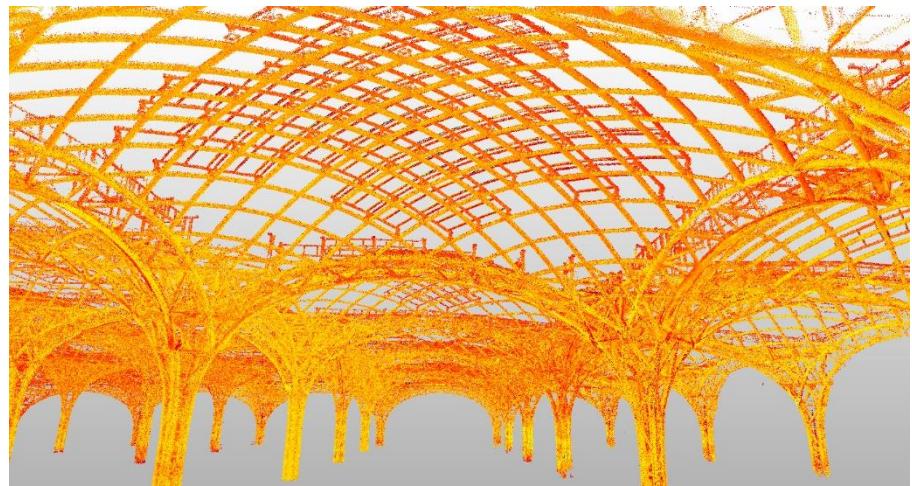
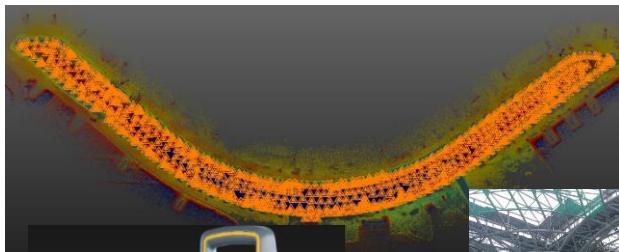
Investment volume: 1.5 Billion USD

Scope of services by ILKH:

- 3D laser scan of the supporting steel structure of the Head House and the Northwest Pier
- Editing and processing of point cloud data
- Generation of a 3D surface model of the steel structure

Client: LBL International Construction Co., Ltd.

Year: 2023



KMH Park

Phnom Penh, Cambodia



Project Description:

50-ha mixed use development with shopping mall, offices and residential buildings.

Client:

Urbanland City Development

Project Manager:

Urbanland Asia

Architect:

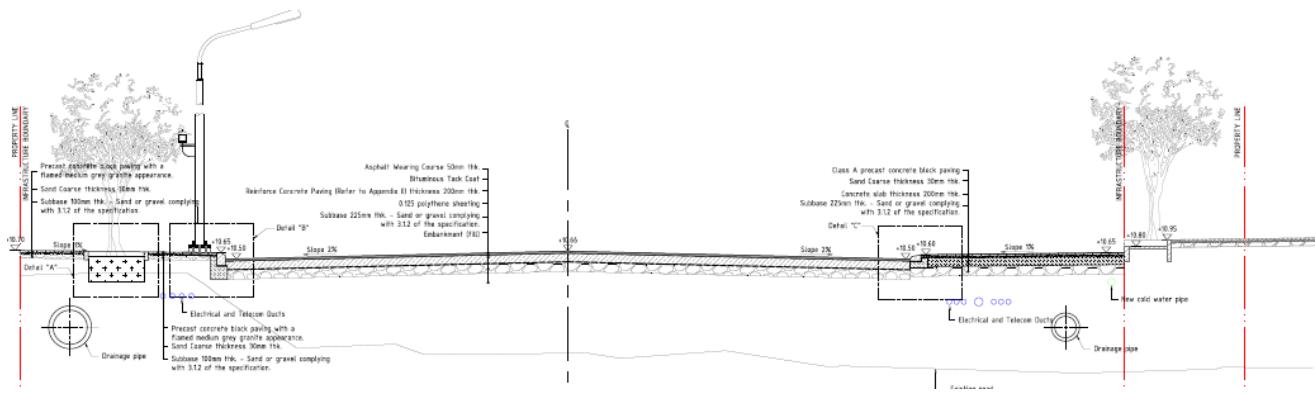
HKA & Partners

Service by Inros Lackner:

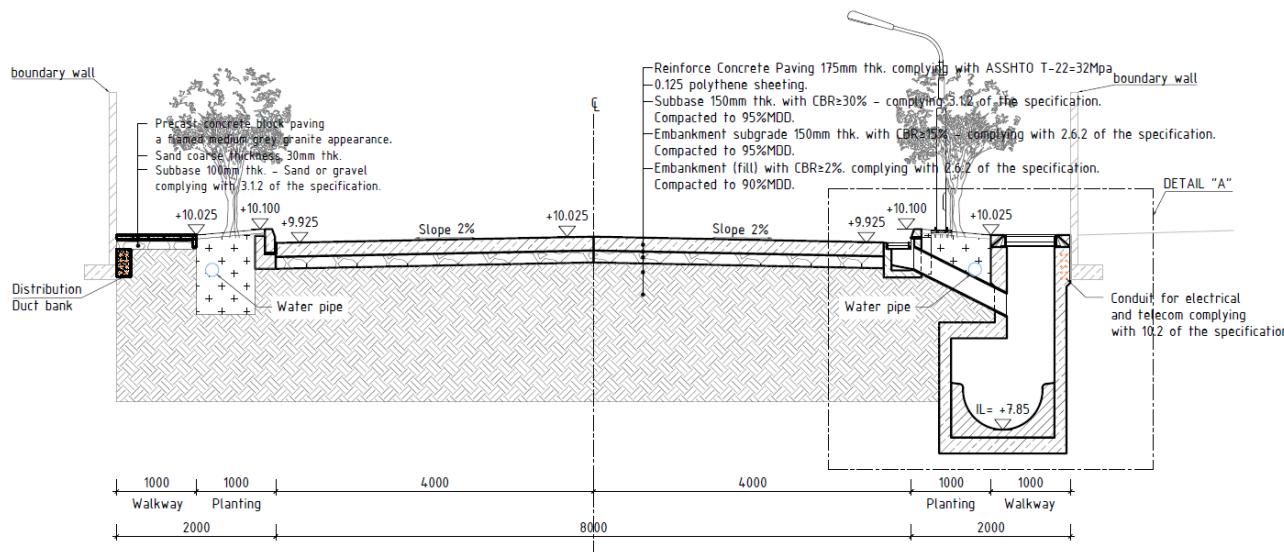
Concept, detailed design and tender documents for:

- Earth- and demolition works
 - Pavements
 - Stormwater drainage
 - Wastewater drainage
 - Fresh water distribution
 - Electrical and telecoms ducting
 - Street lighting

Year: 2019 - 2020



CHANKIRI PALM CREEK Phnom Penh, Cambodia



Project Description:

Development of a residential area on 13 ha of land located in Khan Dangkor in Phnom Penh.

Client:

URBANLAND HOMES CO., LTD

Project Manager:

Urbanland Asia

Architect:

HKA & Partners

Scope of services by ILKH:

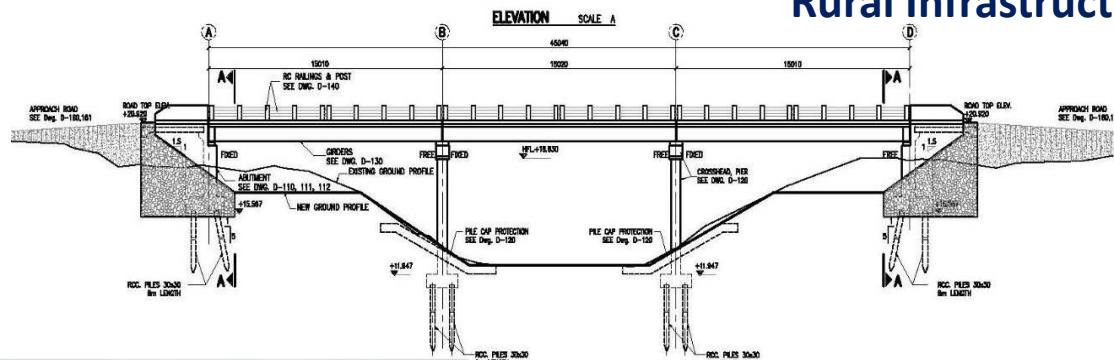
Feasibility project study for civil infrastructure,
Concept, detailed design and tender documents for:

- Earthworks
- Pavements
- Stormwater drainage
- Wastewater drainage
- Fresh water distribution network
- Electrical and telecoms ducting
- Street lighting

Year: 2019 - 2021

Tertiary Road Improvement Programme Phase IV

Rural Infrastructure Programme Phases I, IV, V & VI



Project

Rural Infrastructure Programme,
rehabilitation of roads, bridges,
markets and water ponds in the
provinces of Siem Reap and
Kampong Thom

Client

Royal Government of
Cambodia, Ministry of Rural
Development

Finance Agency

Kreditanstalt fuer Wiederaufbau
(KfW)

Implementation

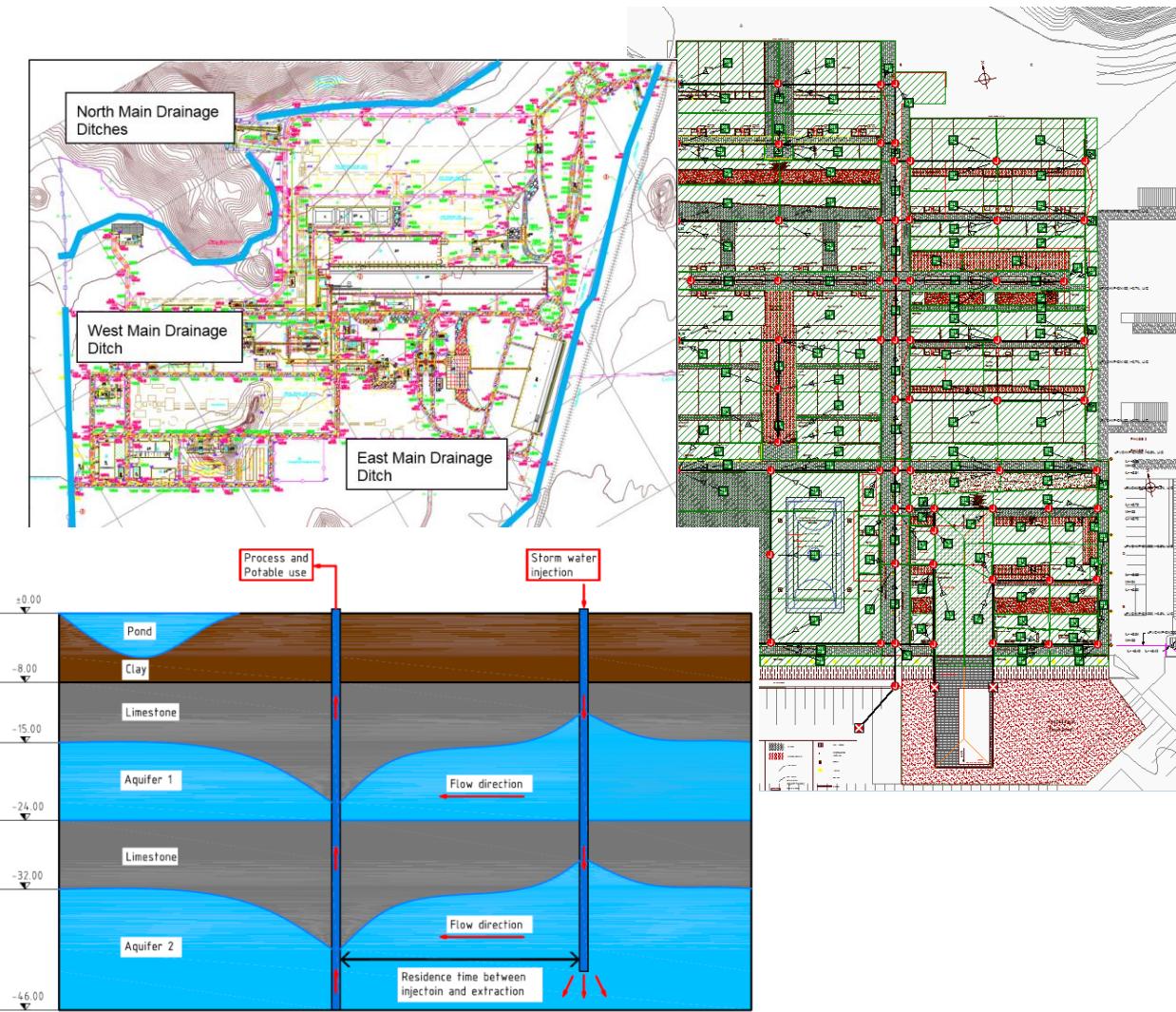
2005-2021

Scope of Service

Socio-economic studies,
topographic surveys,
geotechnical investigations,
detailed design, preparation of bid
documents,
site supervision road contracts

Total Investment

EUR 48,000,000



CMIC Cement Plant

Kampot Province, Cambodia

Project Description:
Water Management Study

Client:
Chip Mong Insee Cement Corporation

Scope of Service by IL:
Water balance assessment;
Review of the existing drainage designs by applying hydrodynamic modelling of the drainage network; drainage system design recommendations

Year: 2017



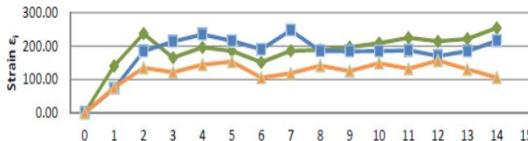
Exchange Square Phnom Penh Cambodia

Project Description:
Grade A mixed-use development with 20-storeys and 4 basement levels

Developer:
Hongkong Land (Cambodia) Ltd

Design:
Arup, Aedas Hong Kong

Contractor:
POSCO E&C



Service by ILKH:
Survey and design of storm water drainage system;
Subcontractor services to POSCO E&C:

- Structural design of all temporary works,
- Monitoring of excavation and lateral support (ELS),

Year: 2014 - 2016



Residence 90 Phnom Penh, Cambodia

Project Description:
Housing development with 90 villas on a 2.7 ha plot of land at the Phnom Penh City Centre

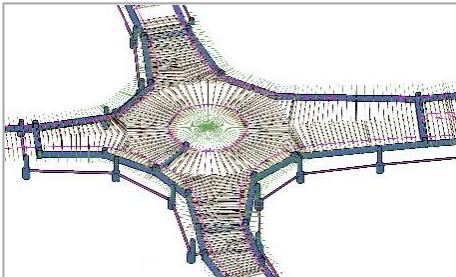
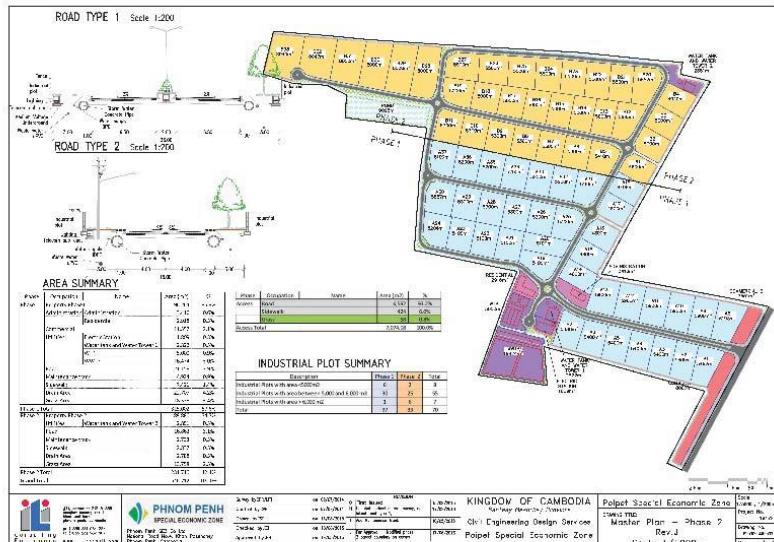
Developer:
Lifestyle Creations Limited

Service by Inros Lackner:
Review of architectural concept, Schematic and detailed architectural, civil, structural & MEP design services

Year: 2014 - 2016

Poipet Special Economic Zone

Poipet, Cambodia



Project Description:

Development of an 56 hectare industrial park in Poipet

Developer:

Phnom Penh Special Economic Zone

Service by Inros Lackner:

- Topographical survey
 - Geotechnical investigations
 - Hydrological study
 - Road network design
 - Storm and Wastewater networks
 - Waste water treatment plant
 - Fresh water supply network and storage tanks
 - Electricity network and substation
 - Preparation of bidding documents

Year: 2015 - 2016



UNESCO Office Phnom Penh, Cambodia

Project Description:

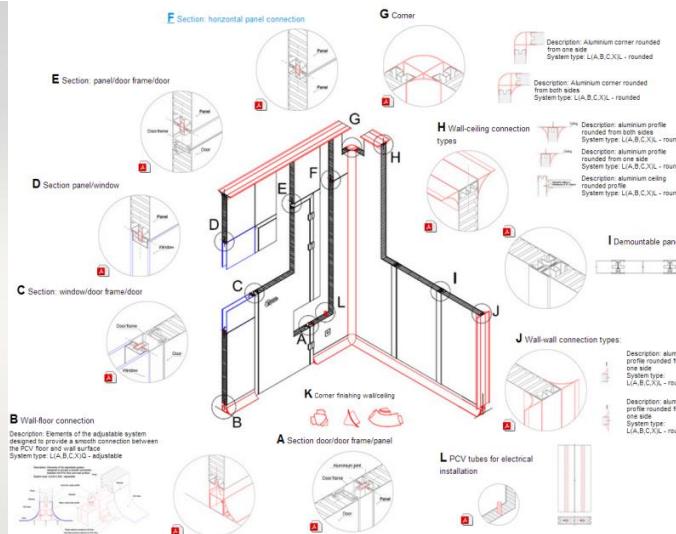
Structural Assessment of of
UNESCO Building on
Sothechos Boulevard

Client:
UNESCO Office Phnom Penh

Scope of Service by IL:
Architectural and structural
survey,
Structural investigations,
Geotechnical investigations,
Structural analysis

Year: 2015

National Laboratory of Drug Quality Control Phnom Penh, Cambodia



Project

Health Sector Support Project,
Construction of National
Laboratory of Drug Quality
Control

WB – Credit #IDA 3728 KH

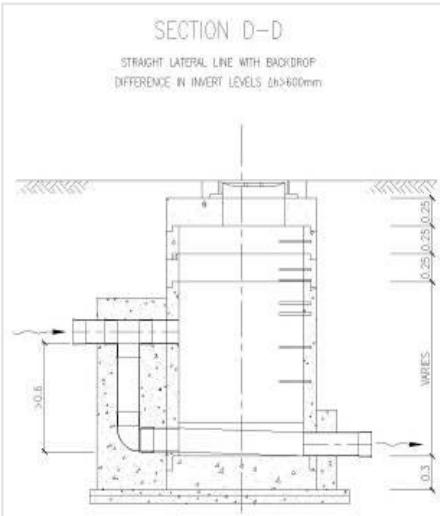
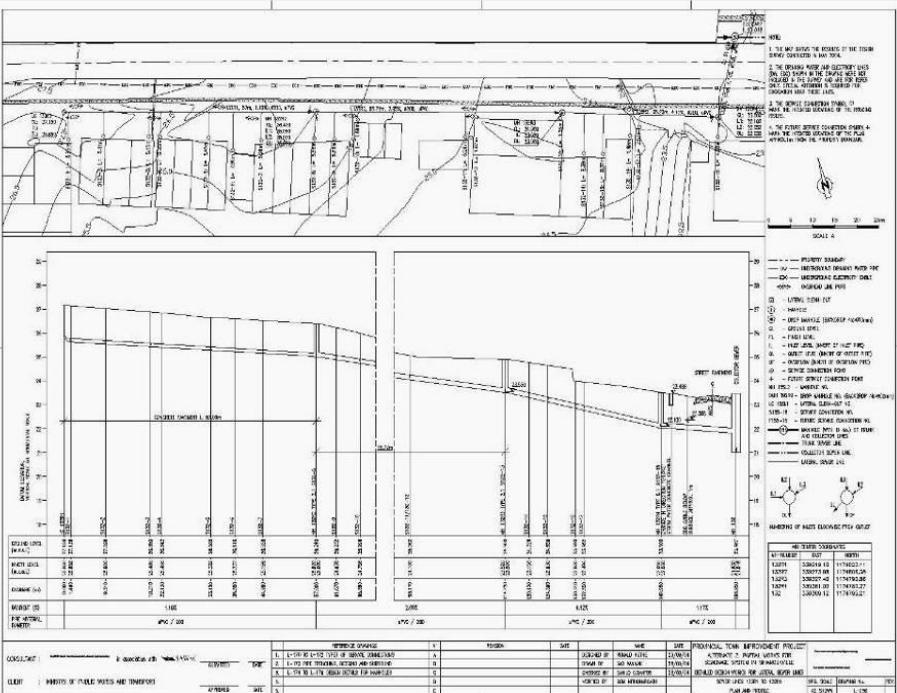
Client

Royal Government of
Cambodia
Ministry of Health

Implementation
2012-2013

Scope of Service

Architectural, structural and
MEP design of laboratory area
Construction Supervision



Project

Provincial Town Improvement Project, Ministry of Public Works and Transport, ADB loan 1724-CAM

Sewerage System for Sihanoukville, Cambodia

Client

JV Hyundai, Hyundai-Mobis, Seng Enterprise

Scope of Service

Topographic survey and detailed design for the sewerage system of Sihanoukville Town with 4000 service connections, 44km sewer lines

Investment Cost

US\$ 5 million

Container Terminal Cai Mep

Vungtau, Vietnam



Client:
Confidential

Services:

- Preliminary design
- Tender documents
- Tendering and allocation
- Site supervision and site management according to FIDIC (Yellow Book)
- HSE

Investment costs:
80 million USD

