

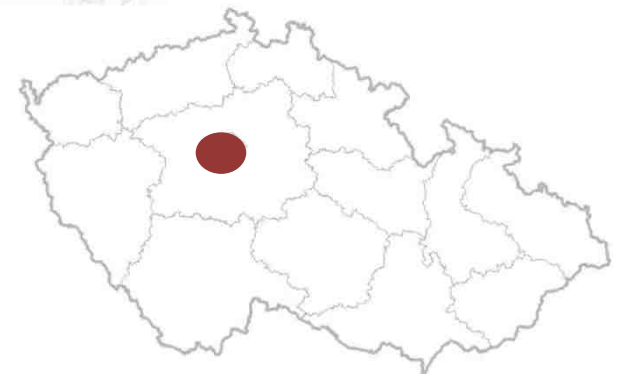
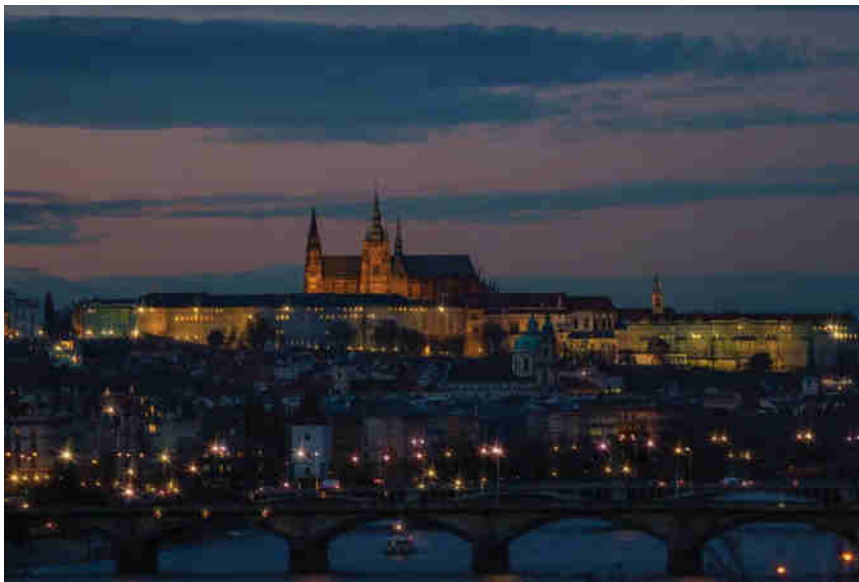
# THE REHABILITATION OF THE OLD WASTEWATER TREATMENT PLANT PRAGUE, CZECH REPUBLIC INDUSTRIAL HERITAGE AND MANAGEMENT

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# CZECH REPUBLIC PRAGUE



A photograph of an old brick wastewater treatment plant. The image features two tall, cylindrical brick chimneys. In the foreground, there is a large, multi-story brick building with arched windows and a red-tiled roof. A black car is parked on the street in front of the building. The sky is overcast.

# OLD WASTEWATER TREATMENT PLANT

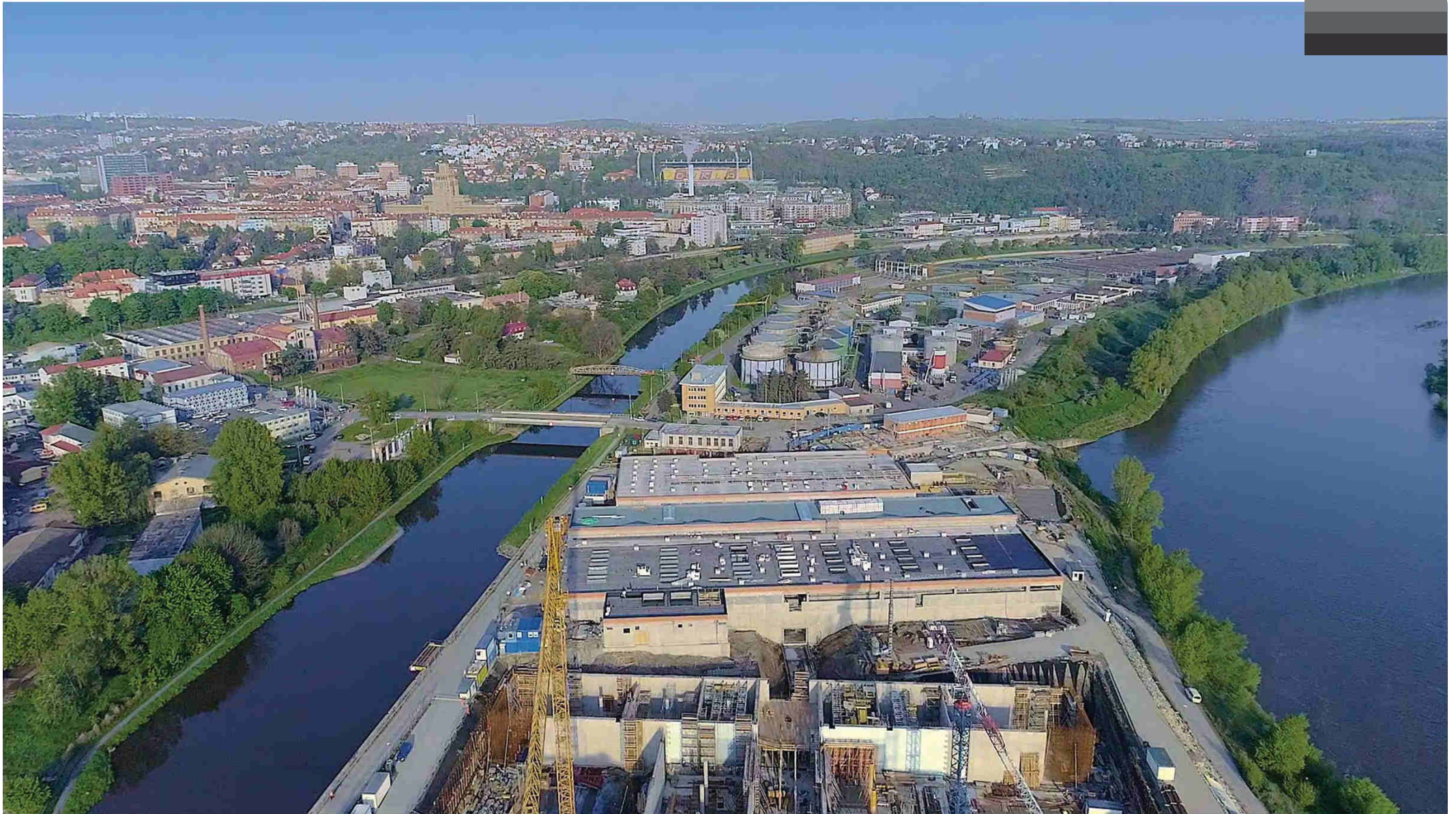
INTRODUCTION

OLD WWTP

MANAGEMENT

CONSERVATION

PAST - FUTURE

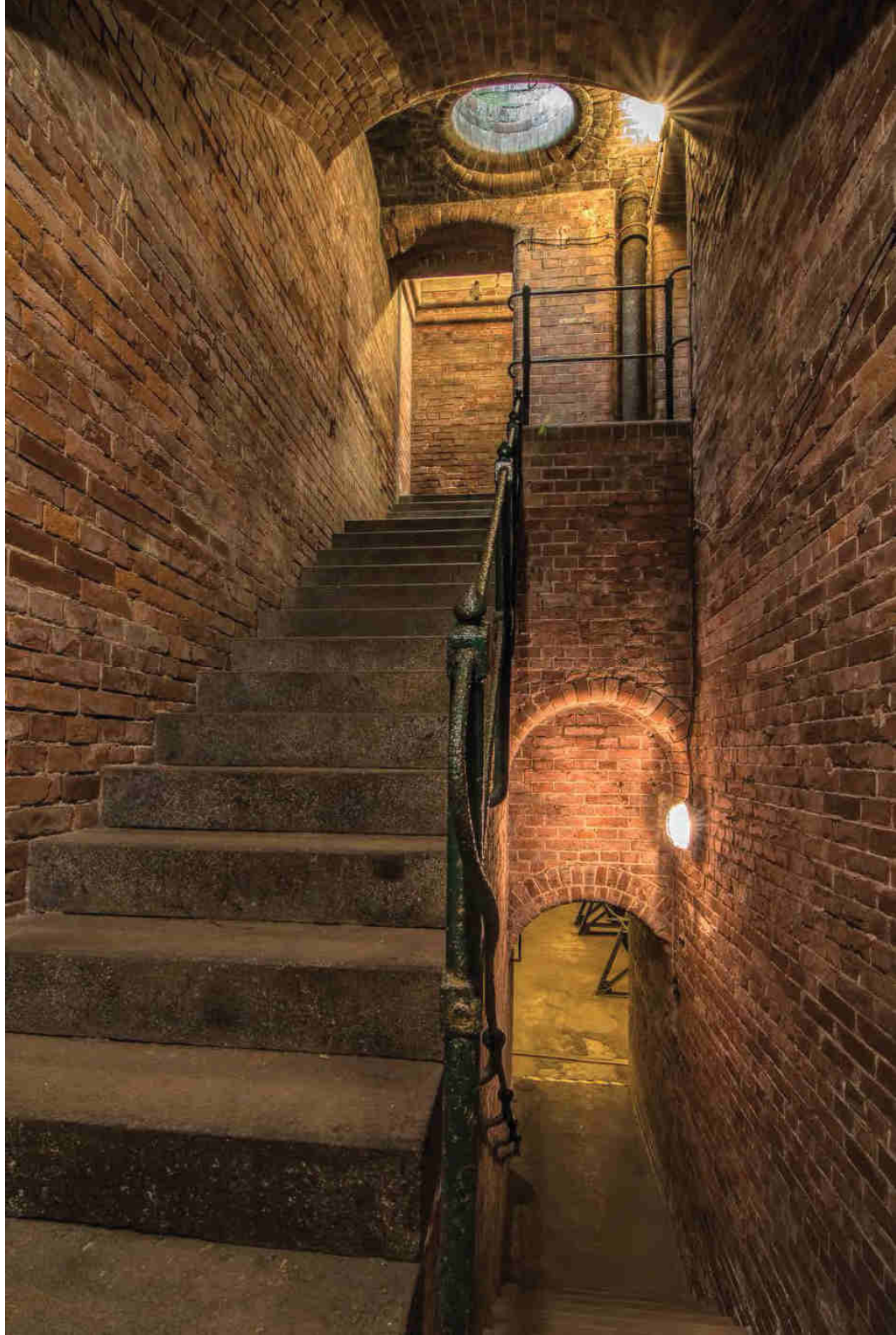


Three plants – three stages of wastewater treatment 1906, 1967, 2018

2010 – National cultural monument  
2016 – ERIH  
2016 – Tentative List Application



Old Wastewater treatment plant  
significance and value



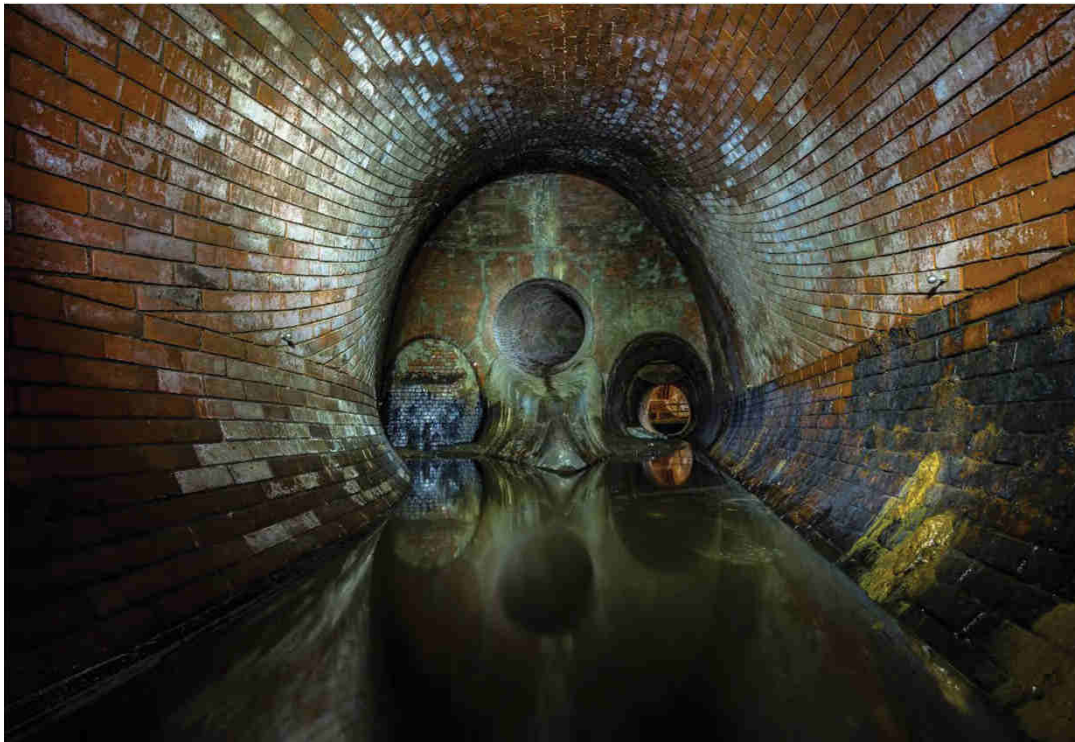
# OLD WASTEWATER TREATMENT PLANT



Prague's sewerage system

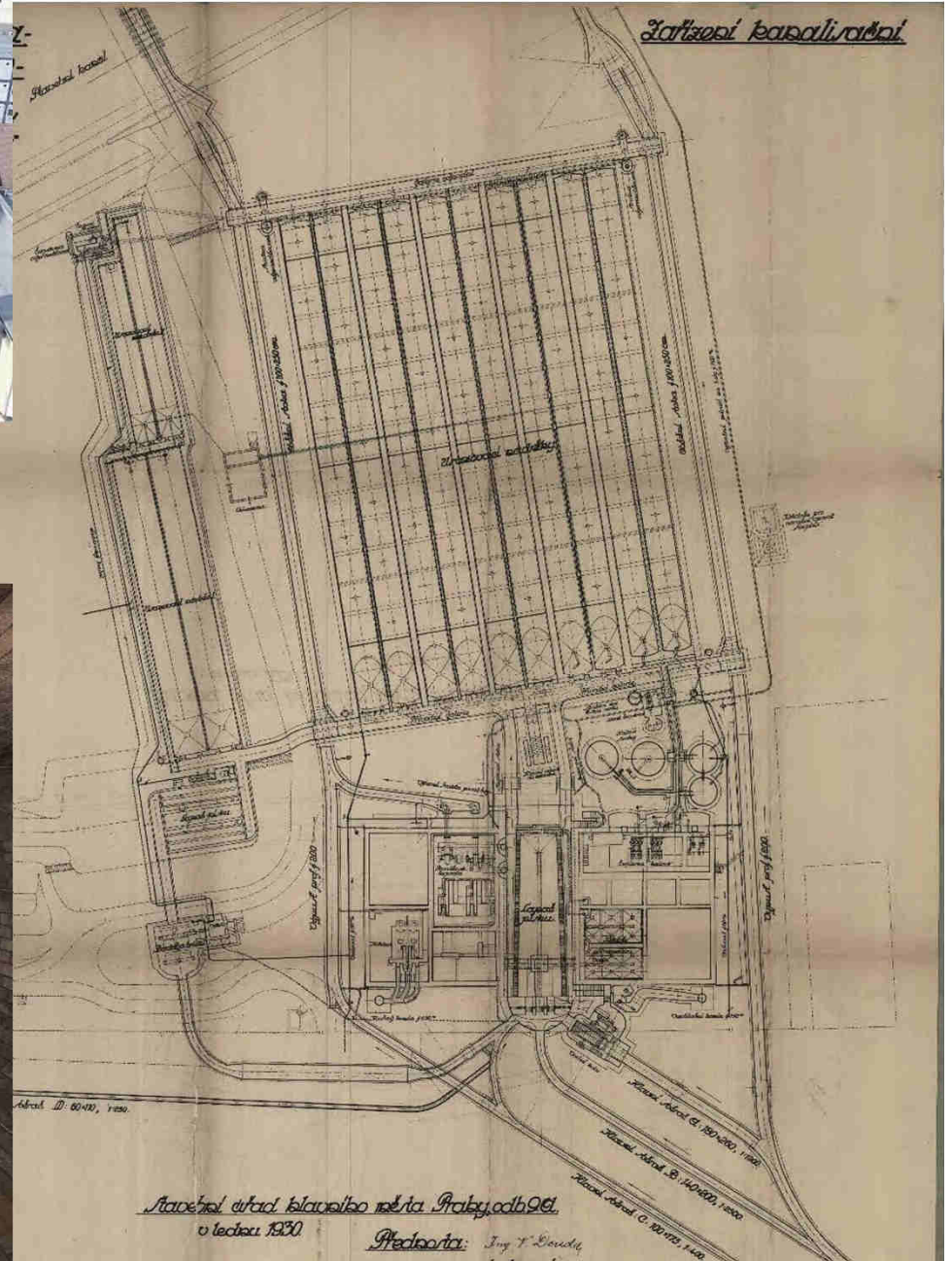


OLD WWTP

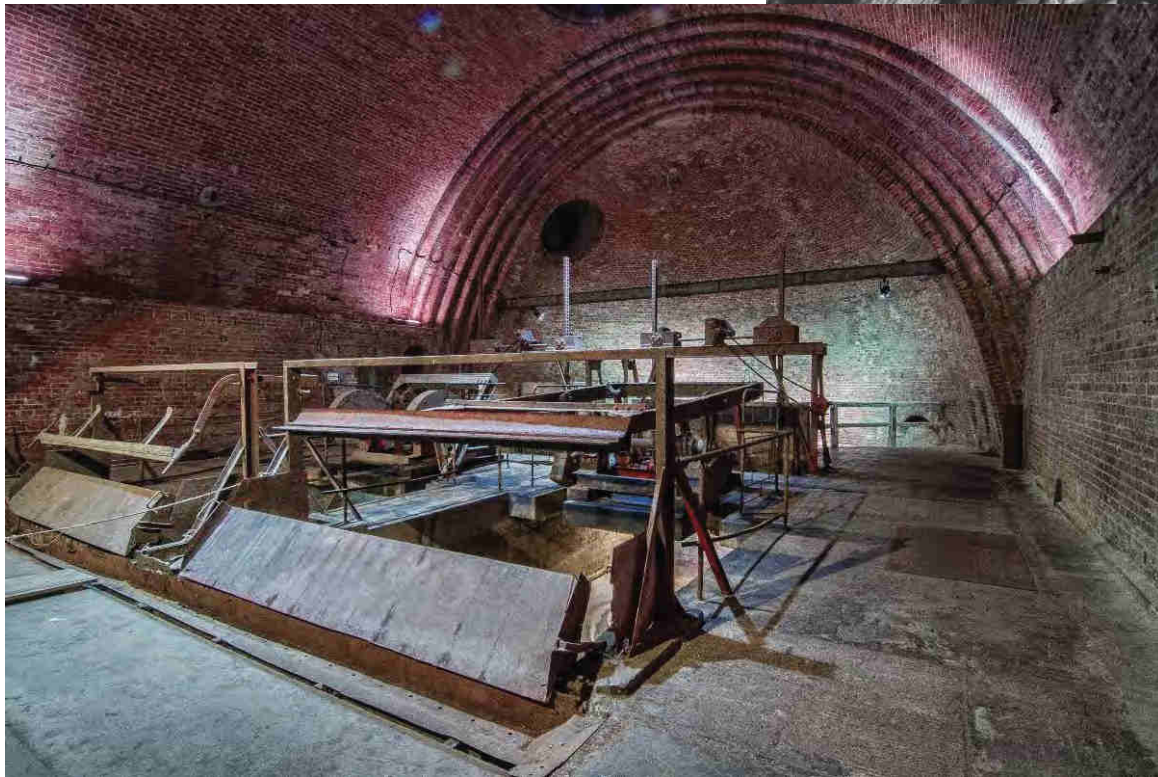




The compound



Screens

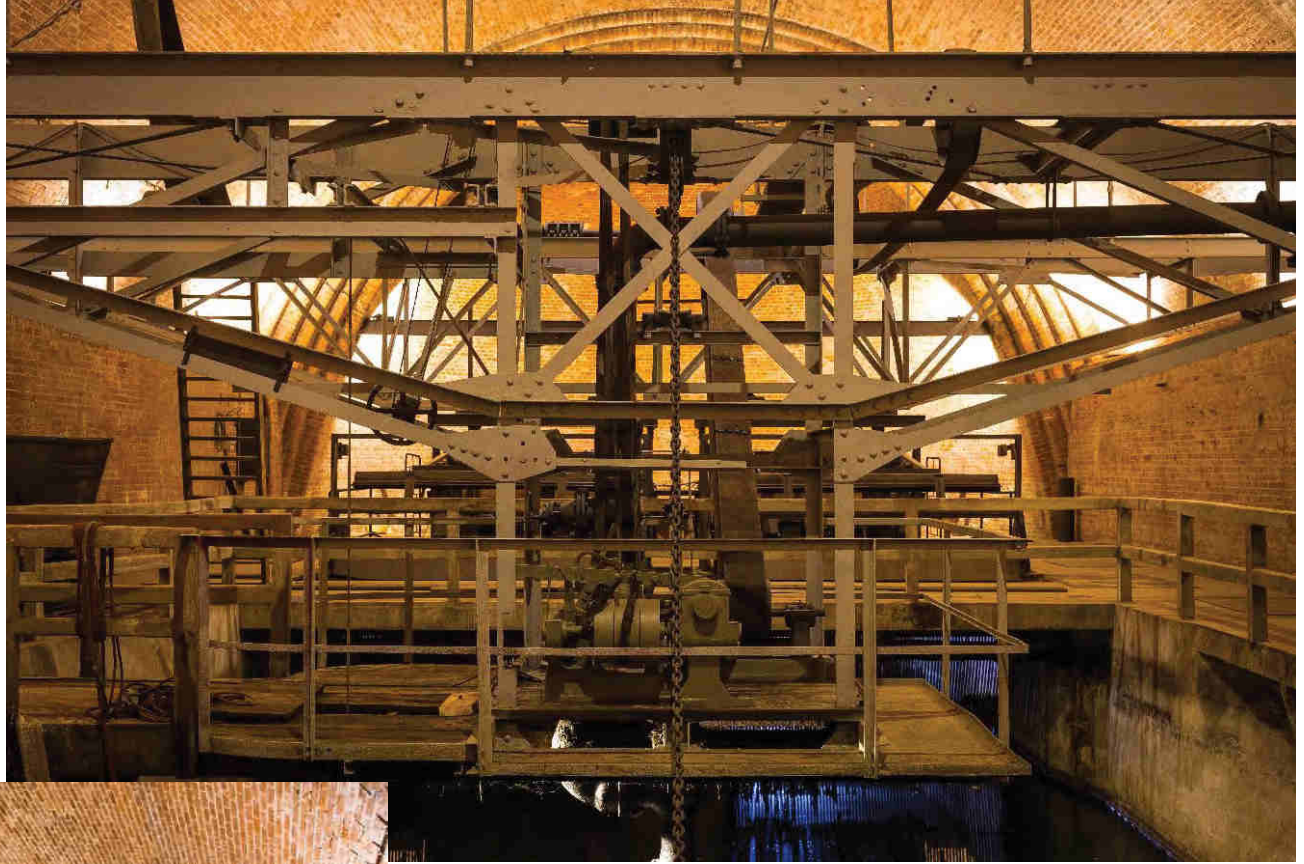


OLD WWTP

Wastewater treatment process



Sand trap

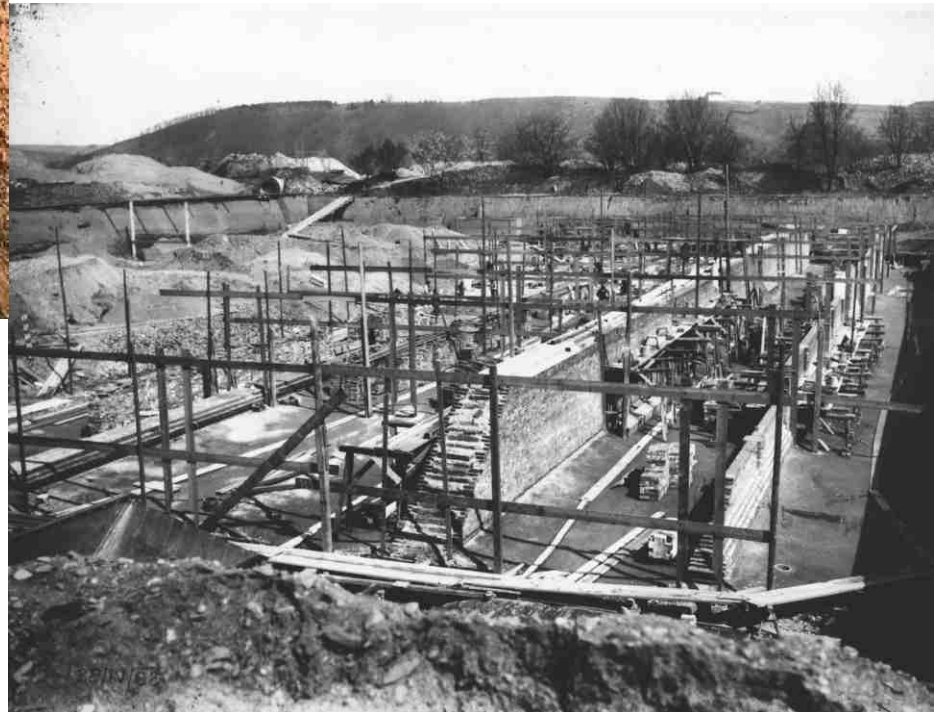


OLD WWTP

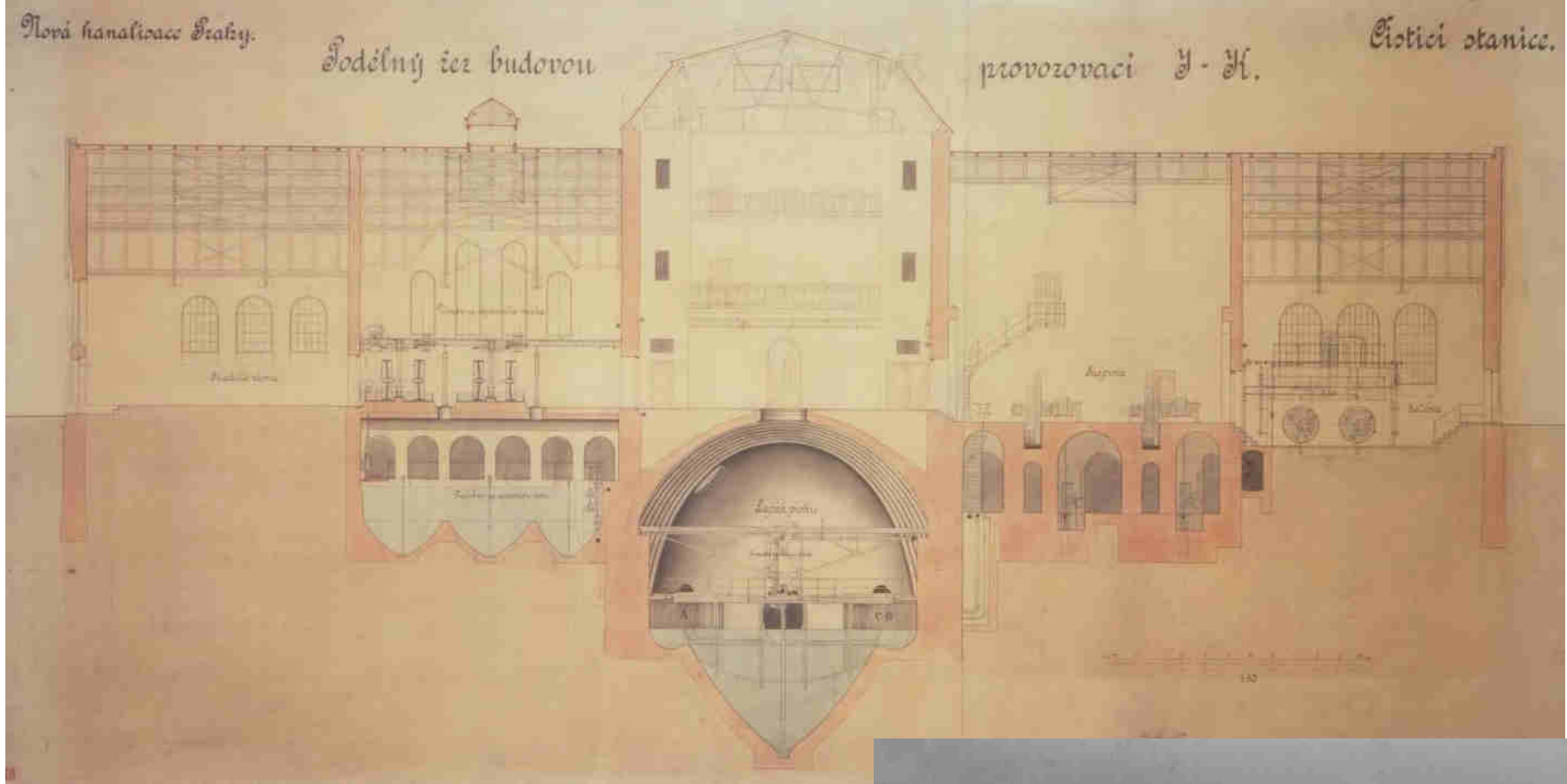
Wastewater treatment process

# Wastewater treatment process

## Settling tanks



OLD WWTP



OLD WWTP

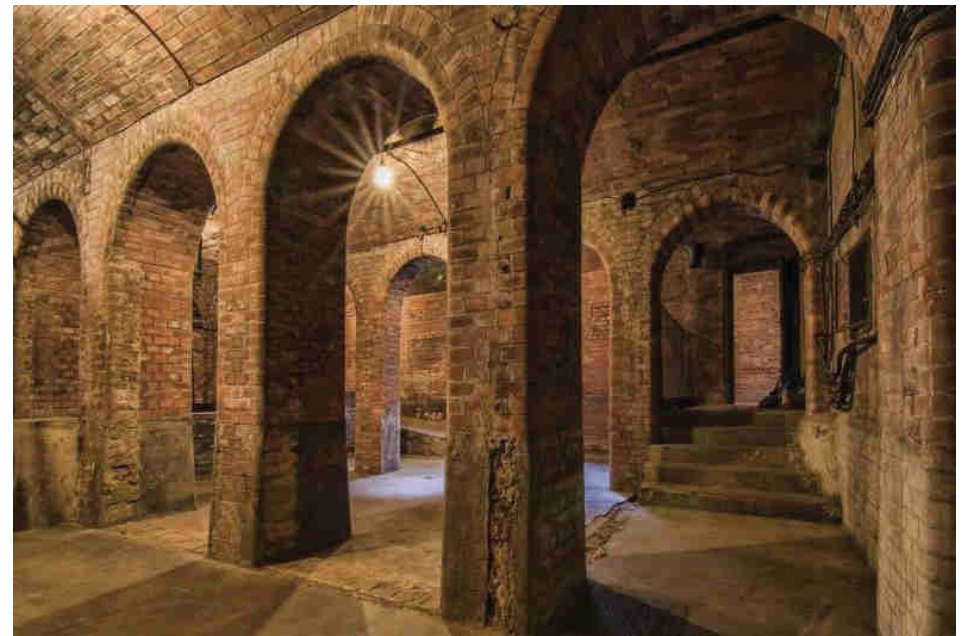
Main operations building



Storage of chemicals

OLD WWTP

Main operations building



# Main operations building



Engine room  
Flood pumps



# Main operations building

OLD WWTP



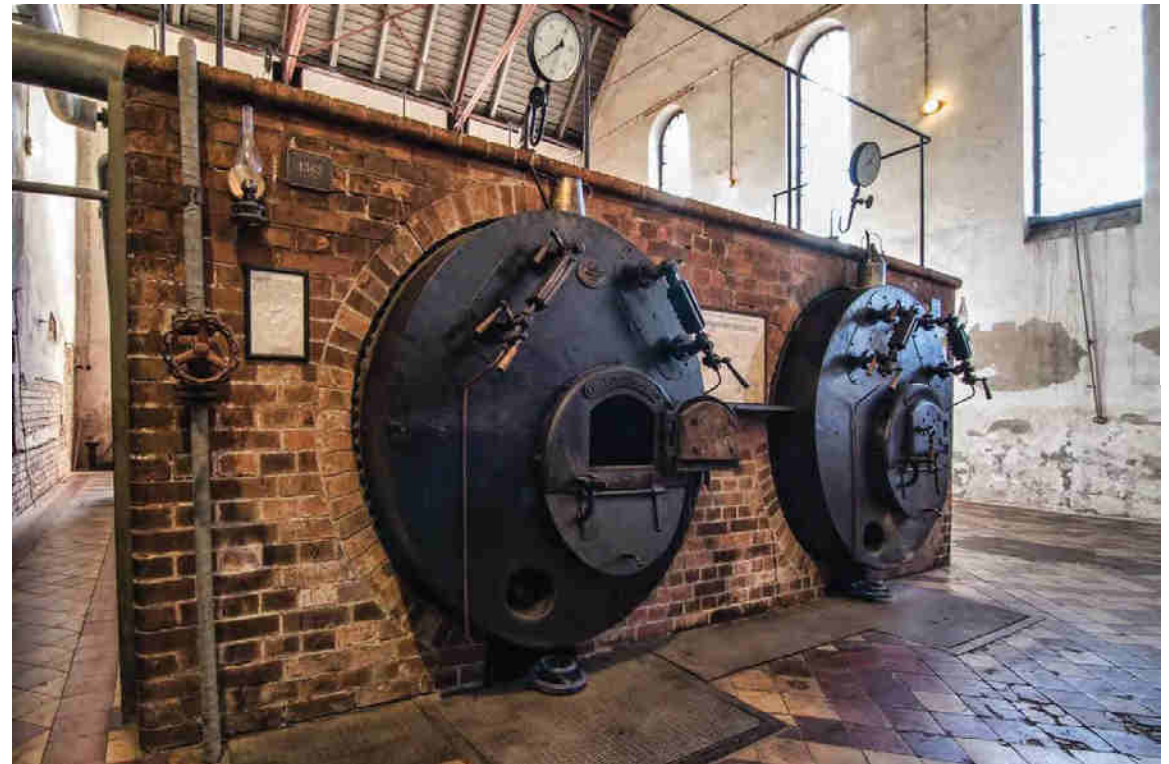
Sludge pumps



Engine room  
Steam engines

Main operations building

OLD WWTP



Boiler room

# PRESENT SITE MANAGEMENT

Tovarna o.p.s., sprava industrialnich nemovitosti

**TOVARNA**



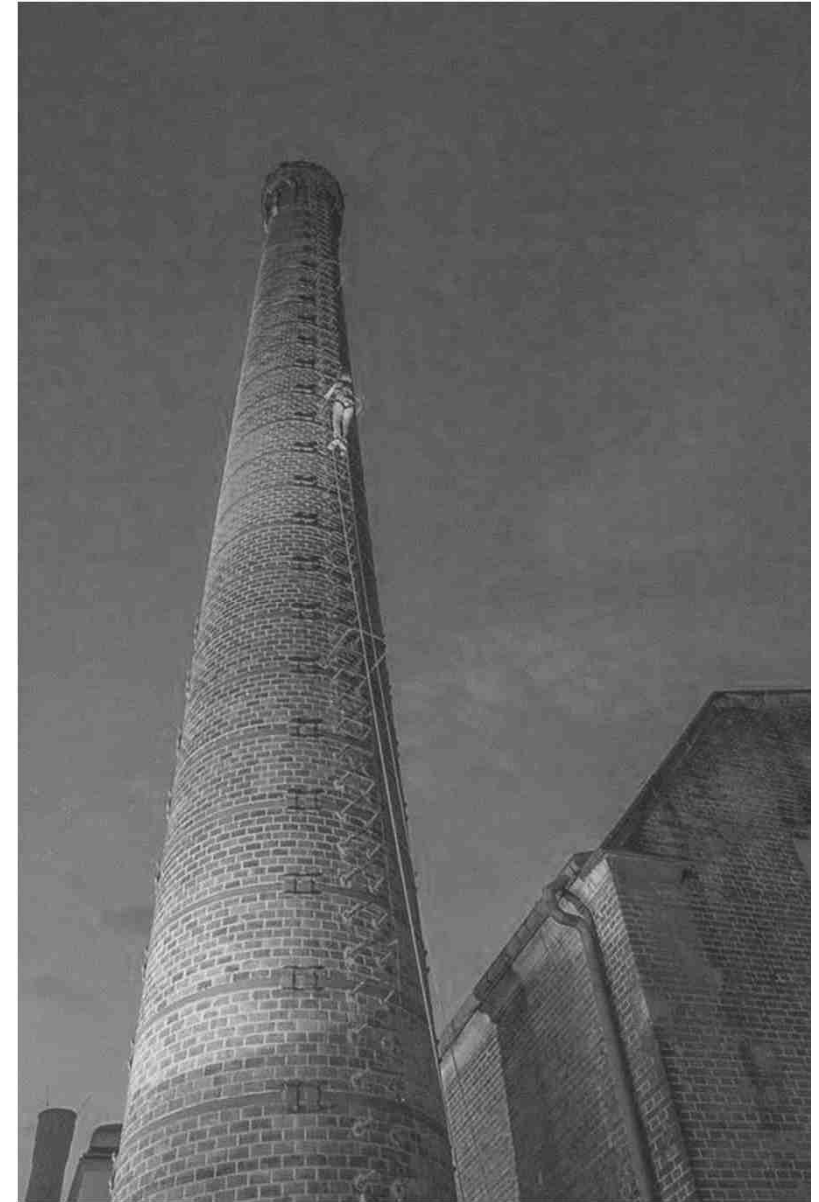
Cultural and education centre

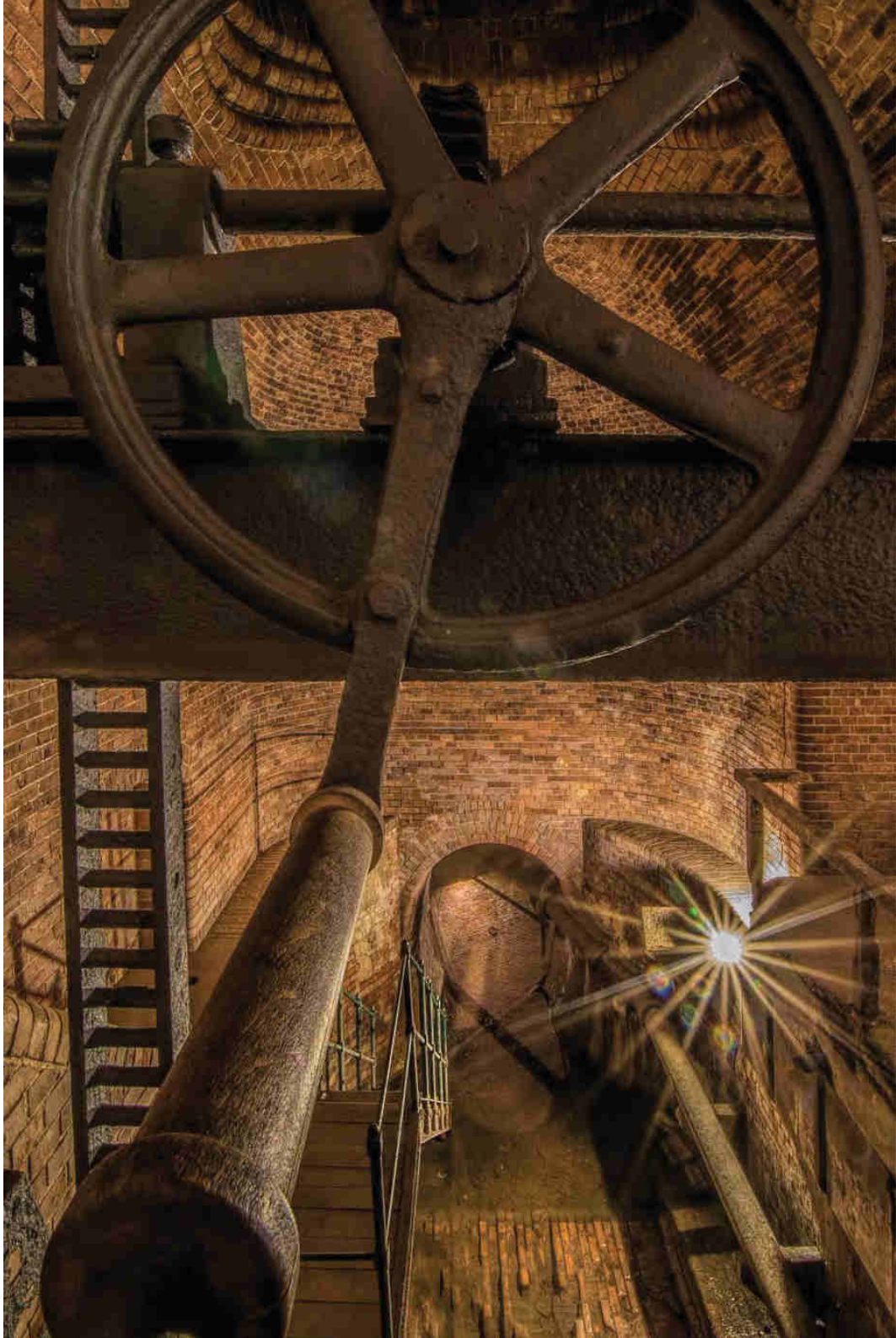
MANAGEMENT





Guided tours





Maintenance and restoration  
Significance and value



MANAGEMENT

Prague, August 14, 2002

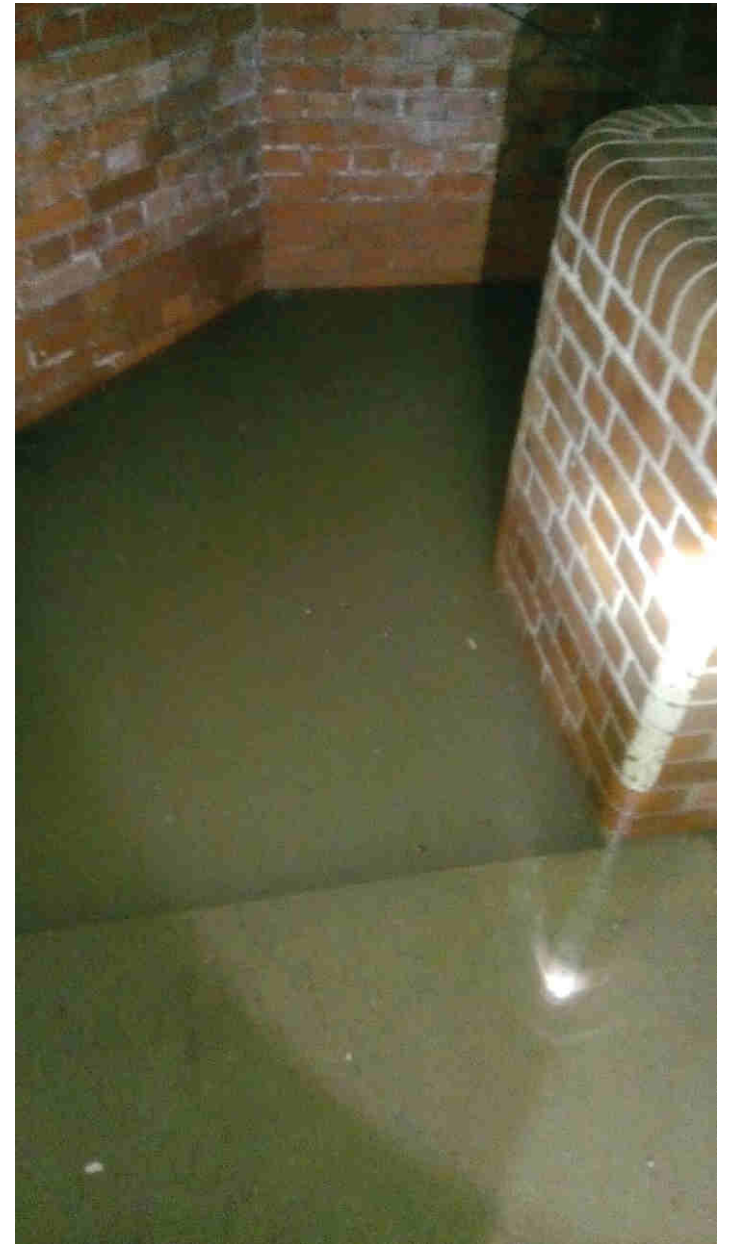




## Extent of Prague Flood in 2002



New flood came in 2013

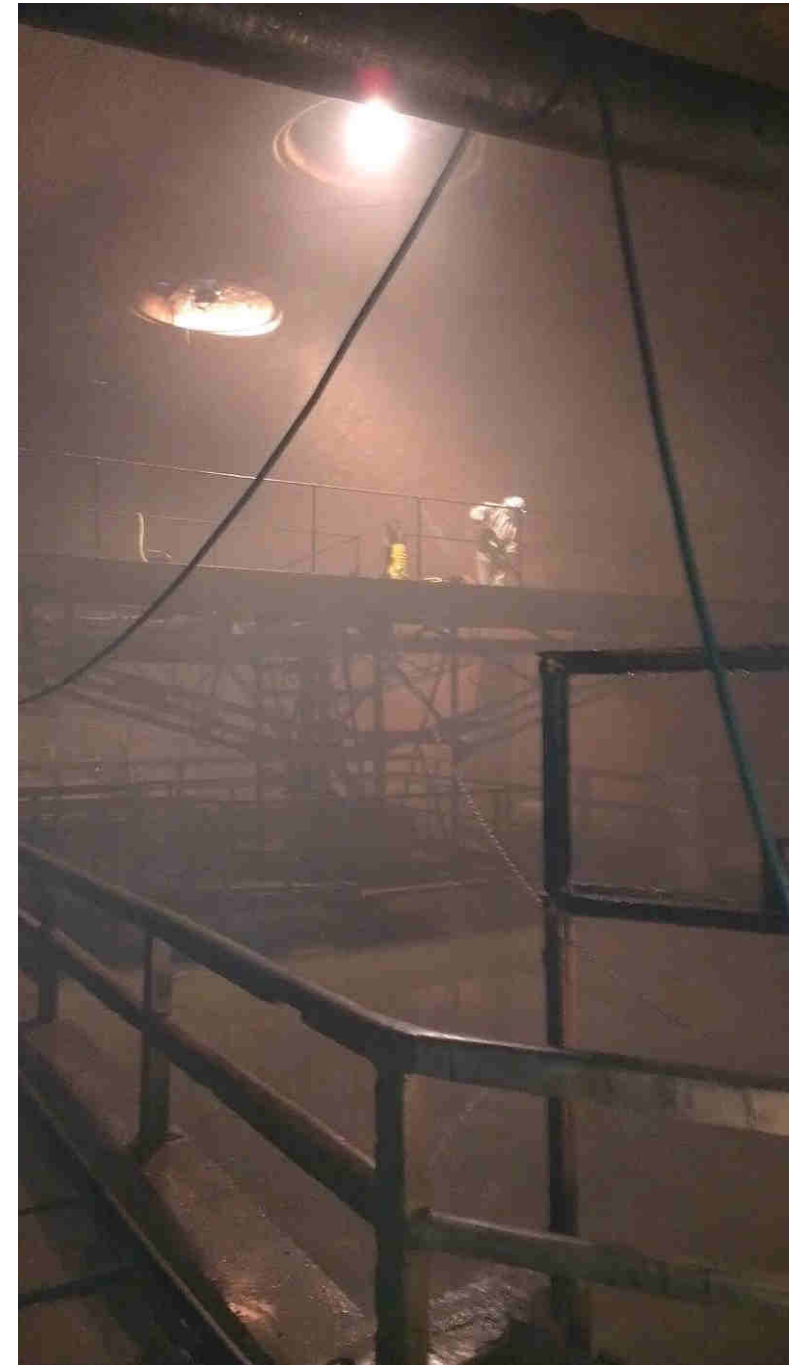


# Restoration of powered machines

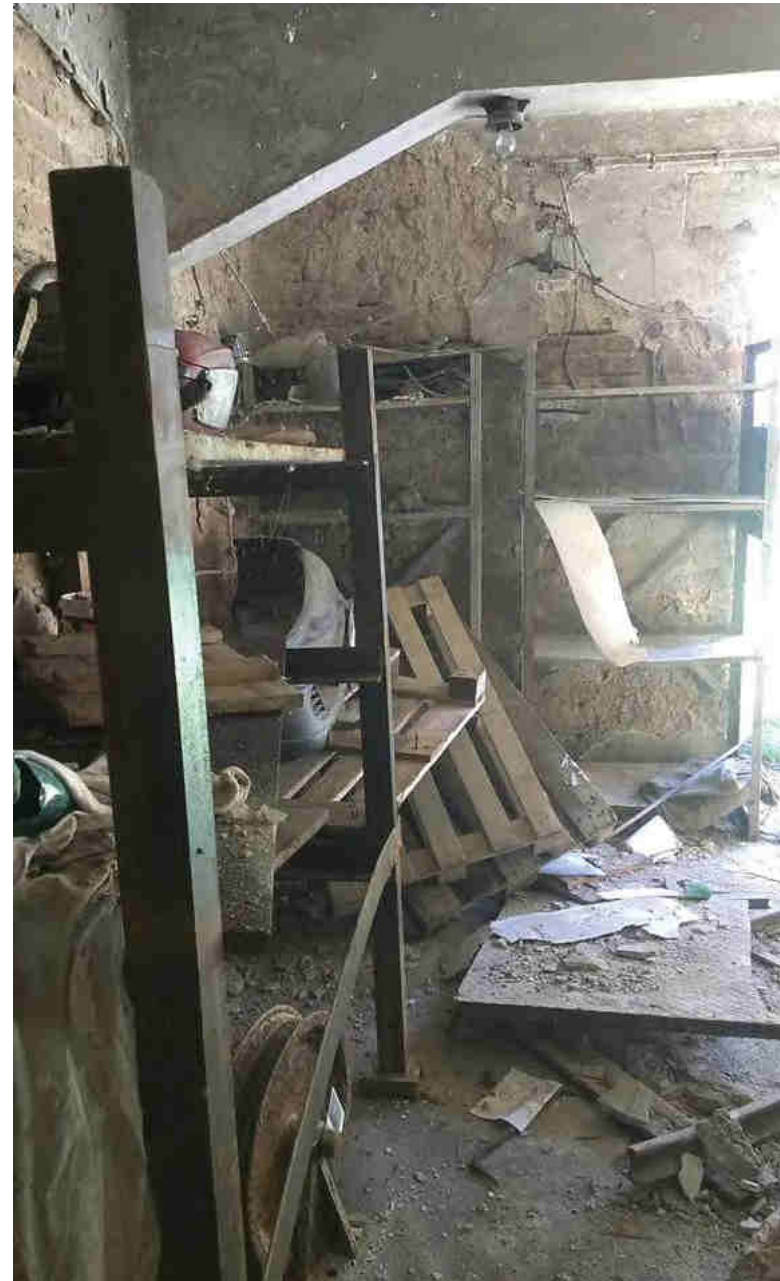




## Emergency works



# Before the treatment had started





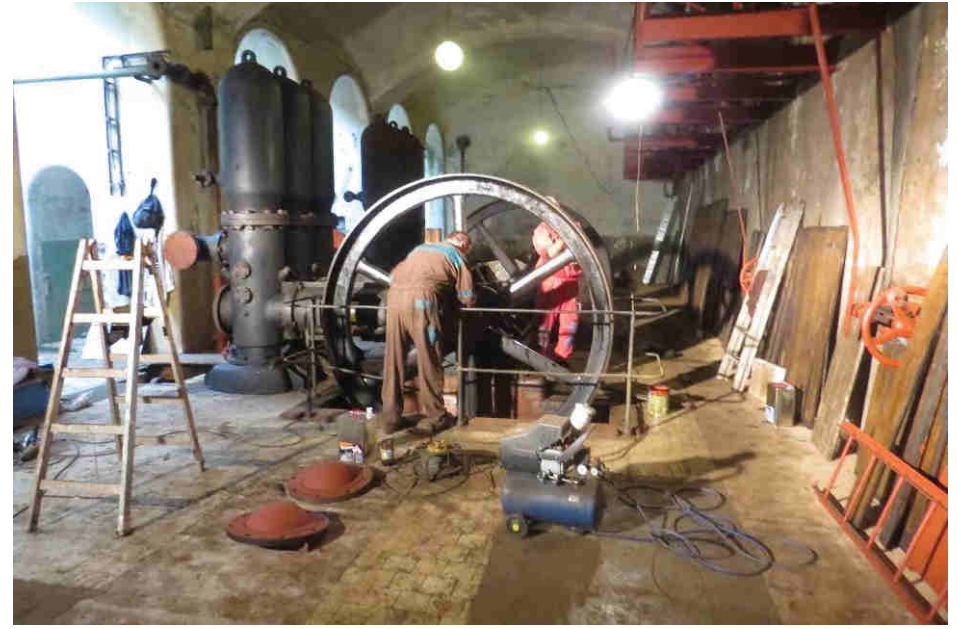
RENOVATION



## Cleaning and Documentation



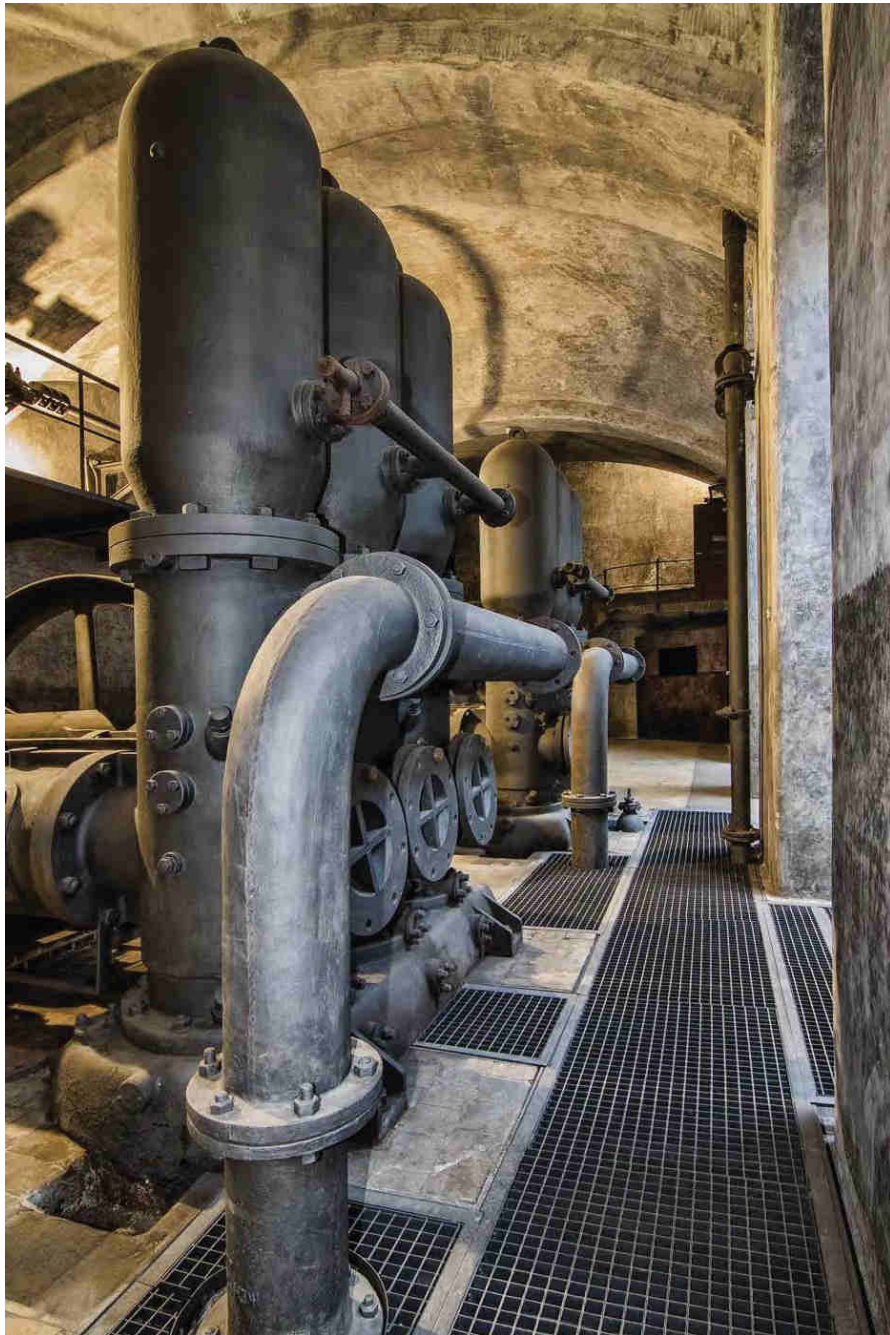
All moving units and expansion bearings had to be released



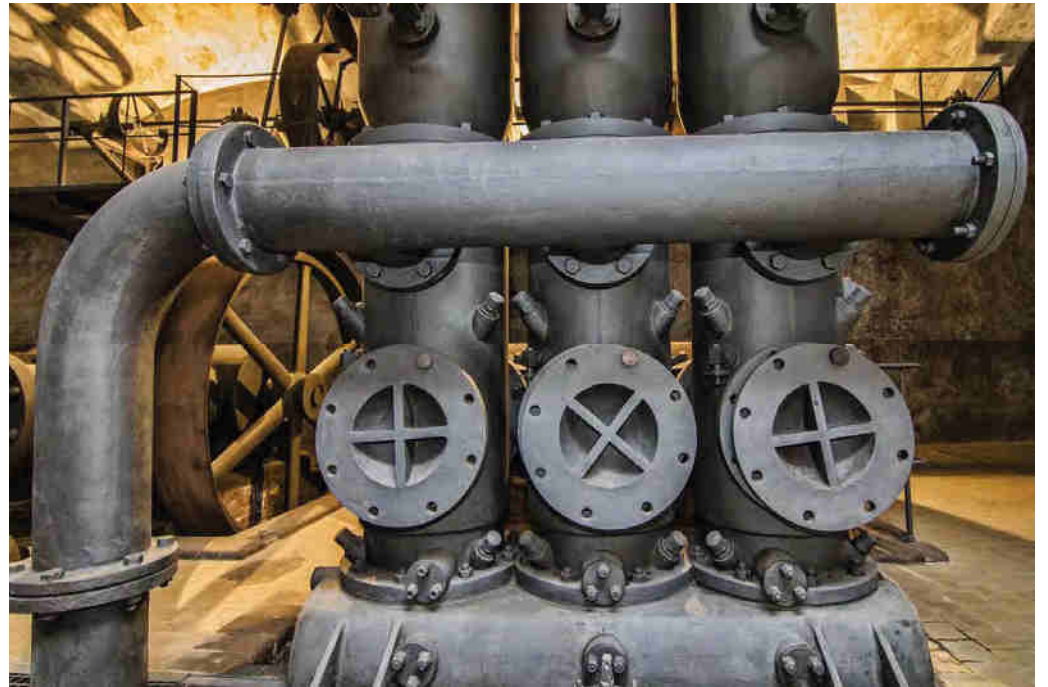


# Sludge pump renovation



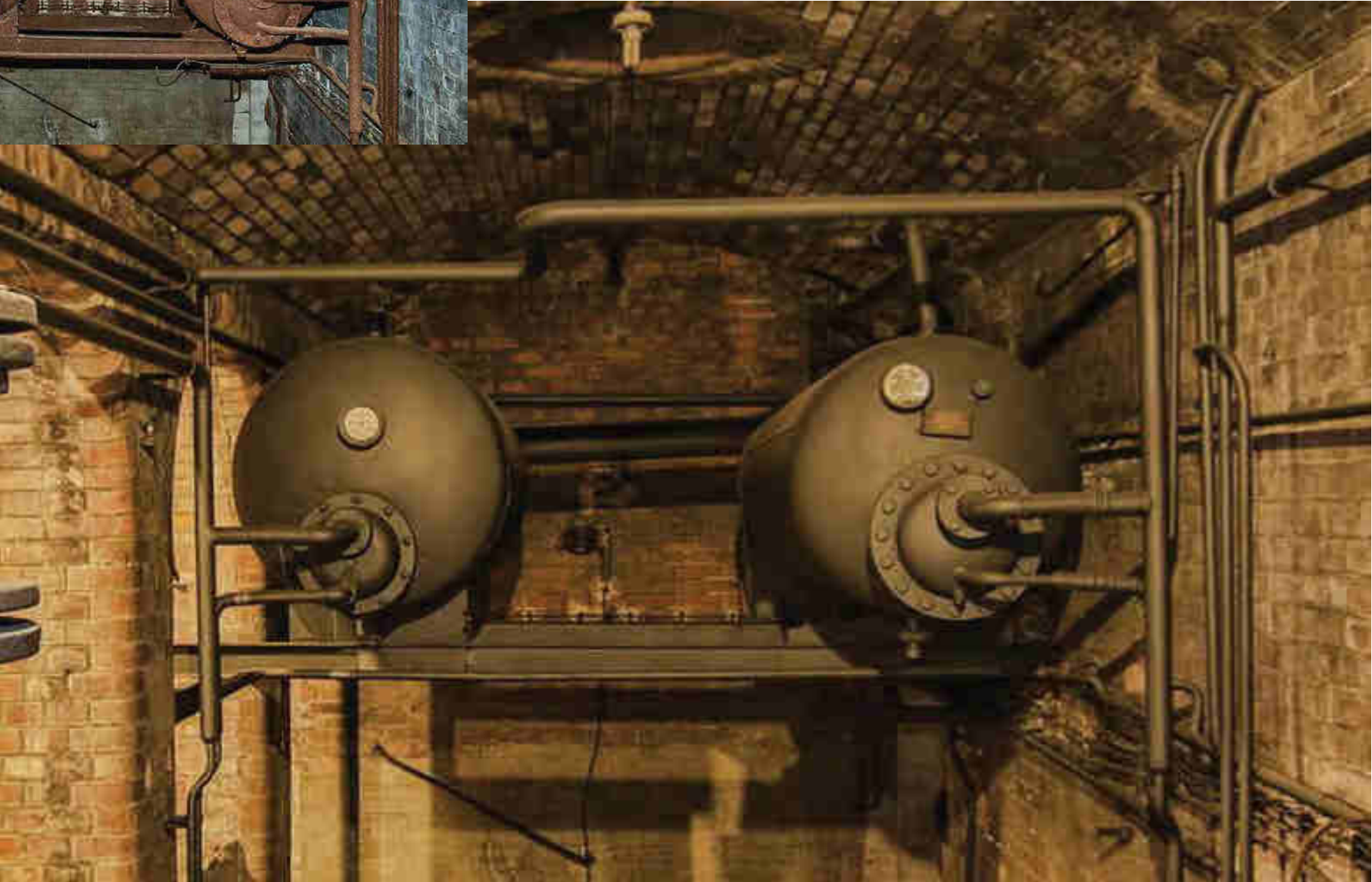
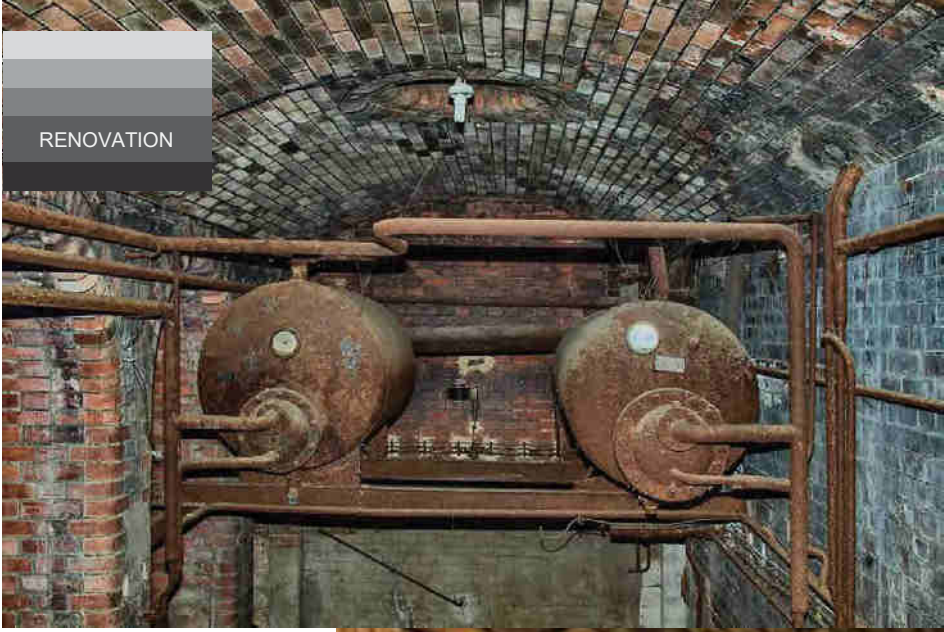


Sludge pump after renovation

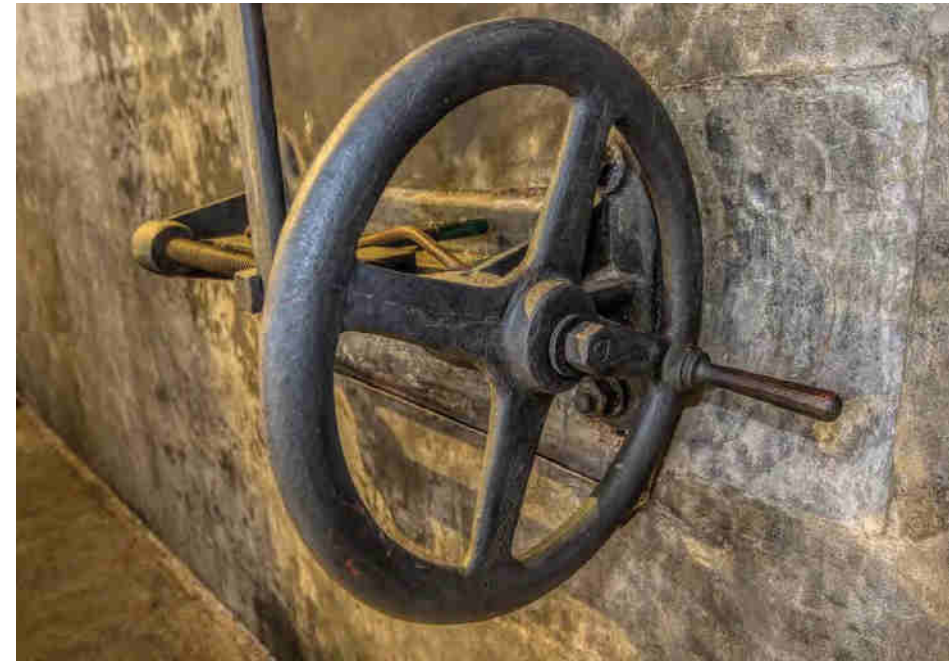
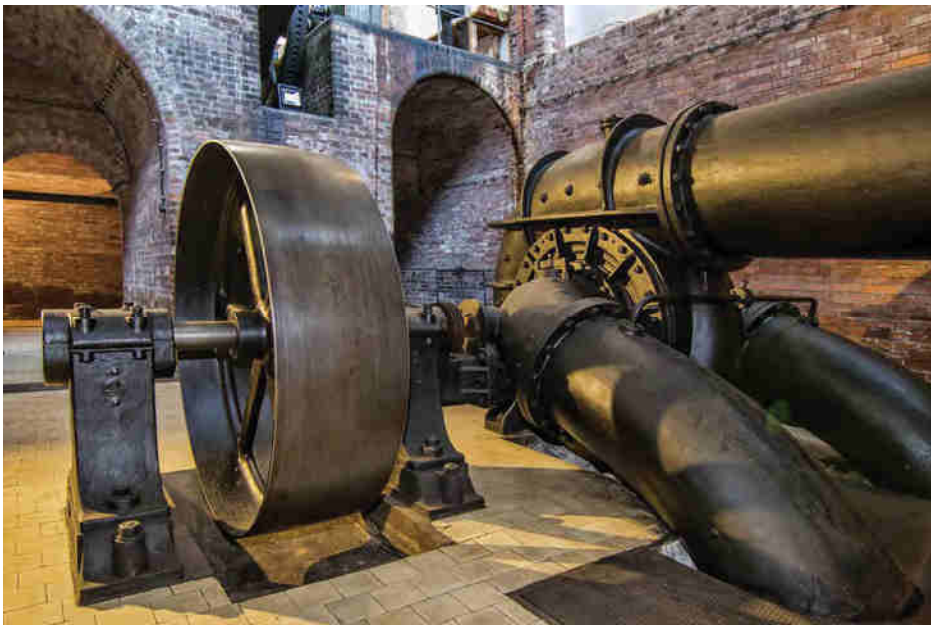
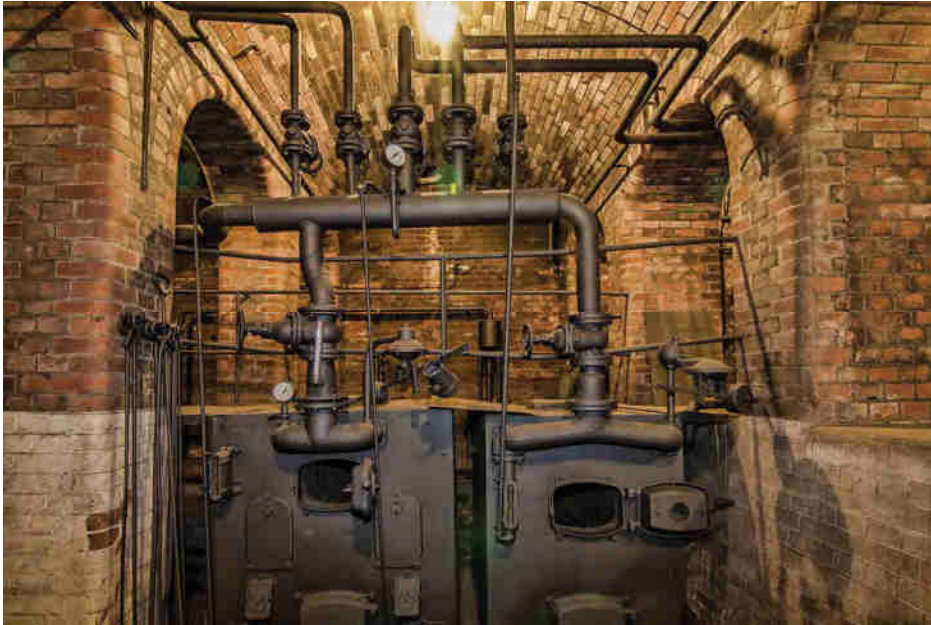


# Boiler tanks before and after renovation

RENOVATION



## Technology units after renovation



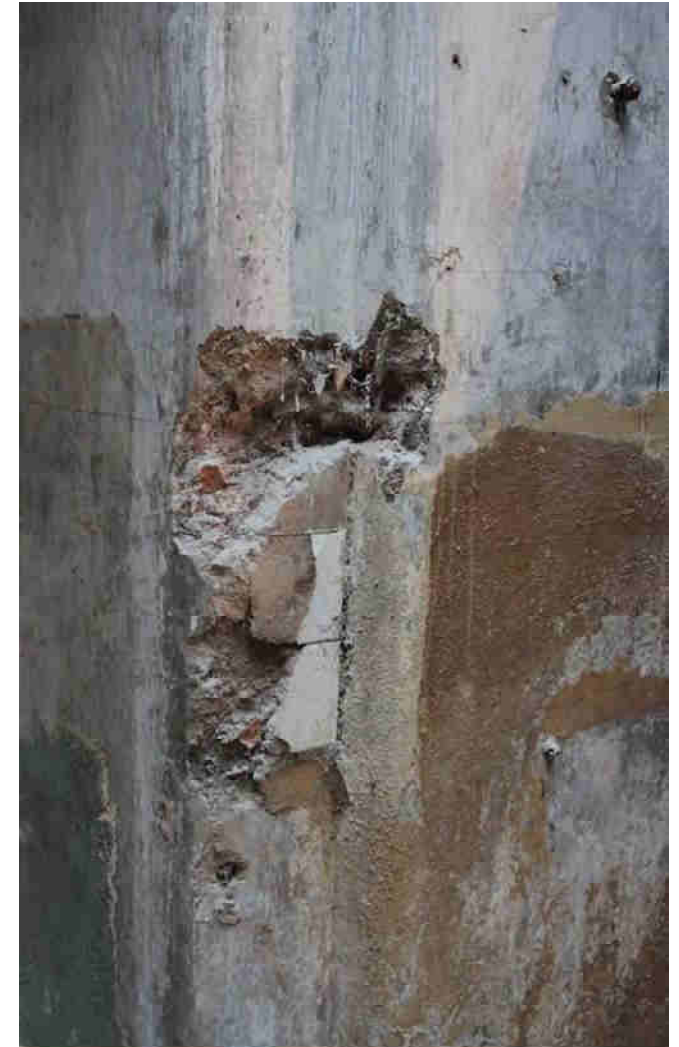
# Restoration and conservation of masonry and plaster





## Underground Sludge pump room

- number of layers to be removed
- old wiring and electrical units were checked and all recent additions were removed
- intensive biological attack of algae
- recent interventions within walls and columns



# Walls before intervention



# Mechanical cleaning by intensive grinding layer after layer



RENOVATION



## Paint and varnishes removal



RENOVATION



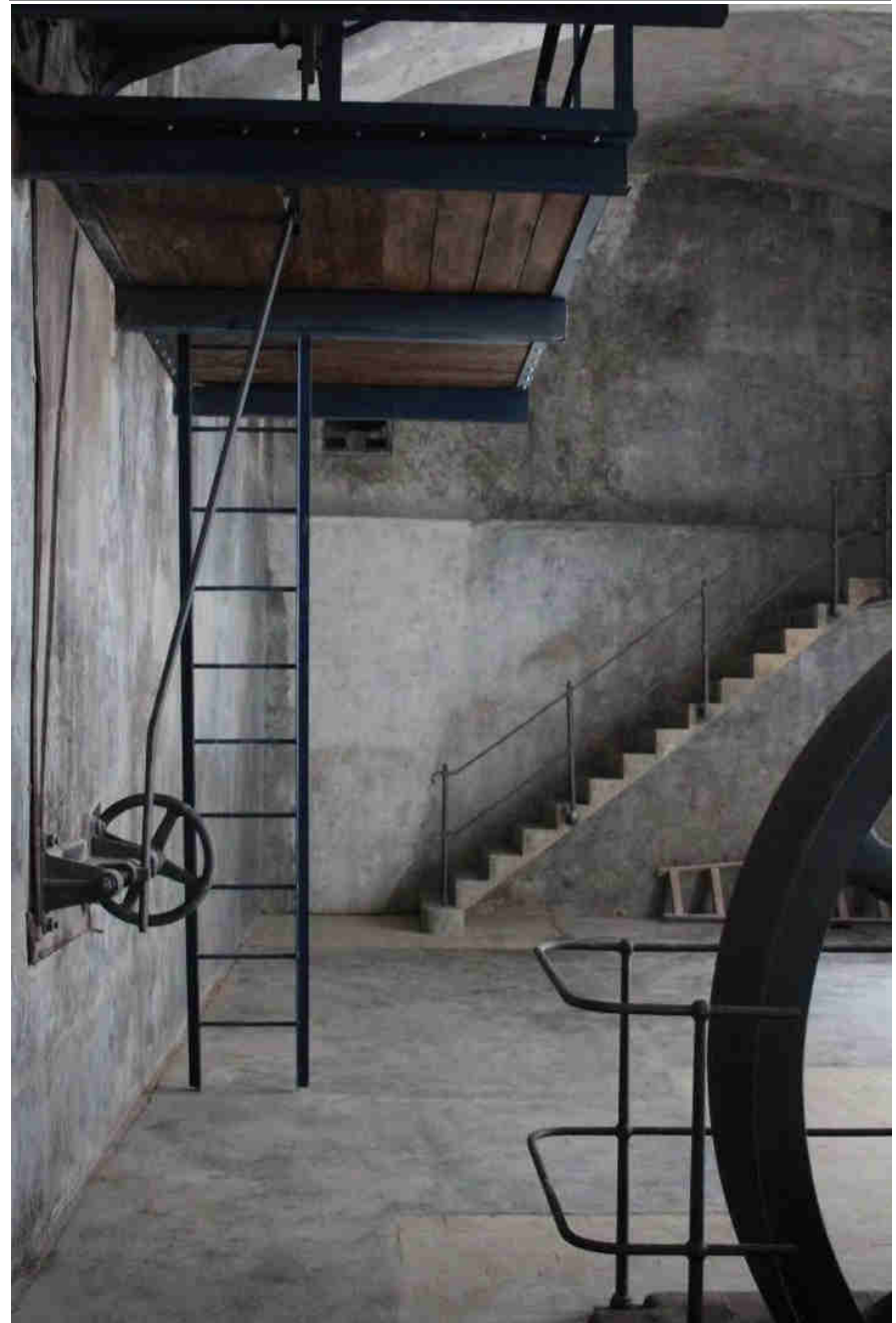
All deficiencies had to be repaired by various kinds of cement putties



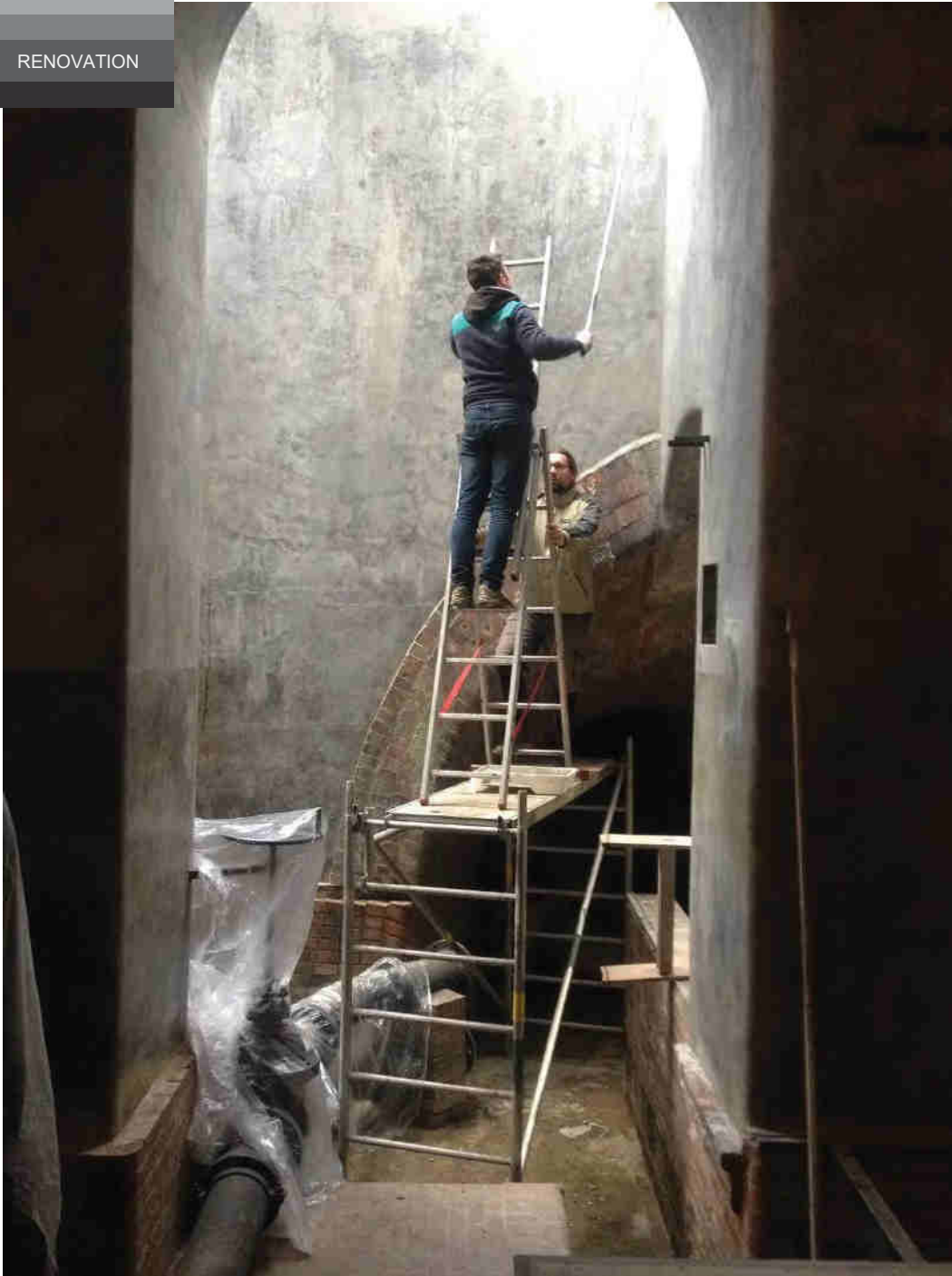
RENOVATION



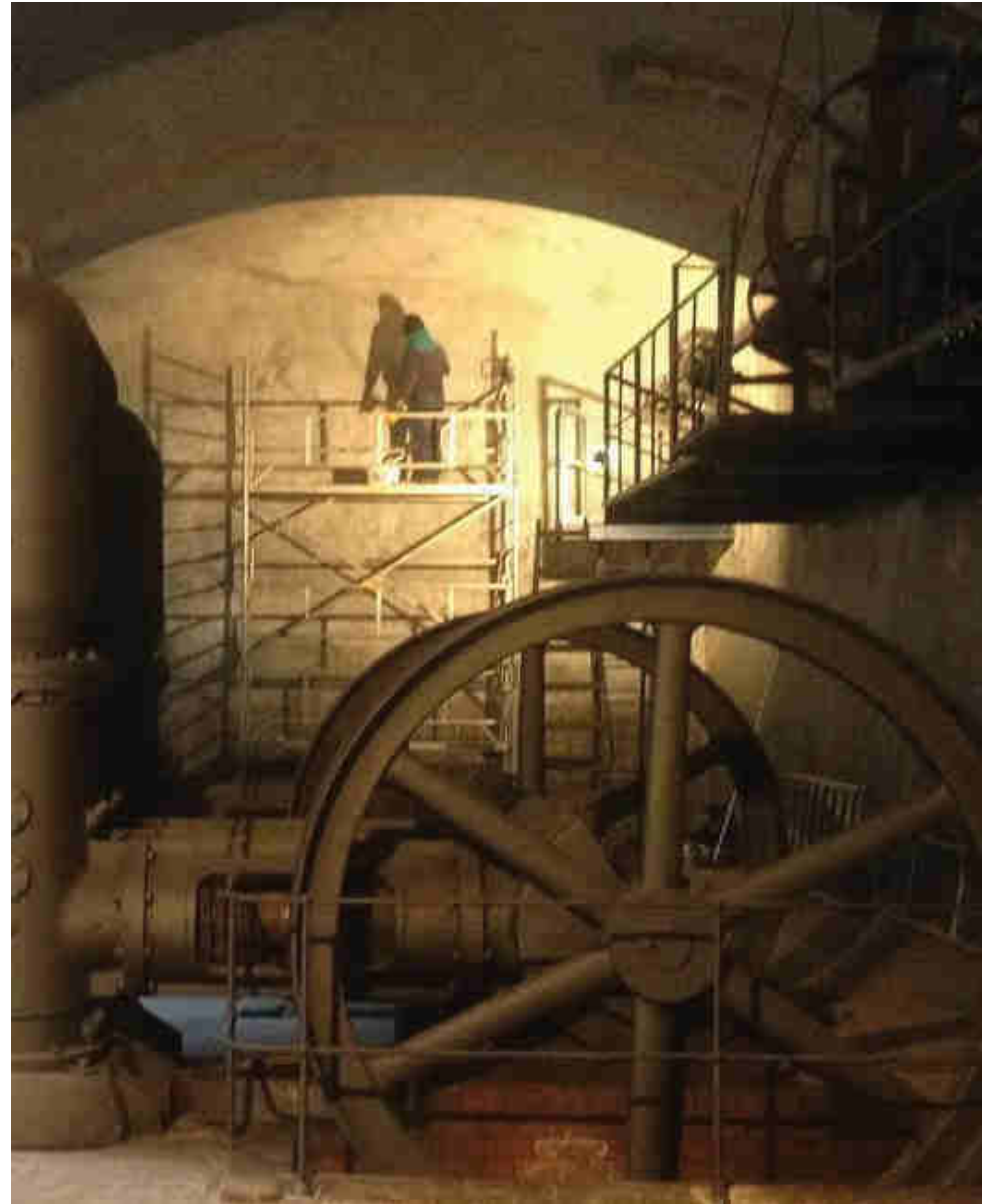
Preserved condition after repair  
of walls and plasters



RENOVATION



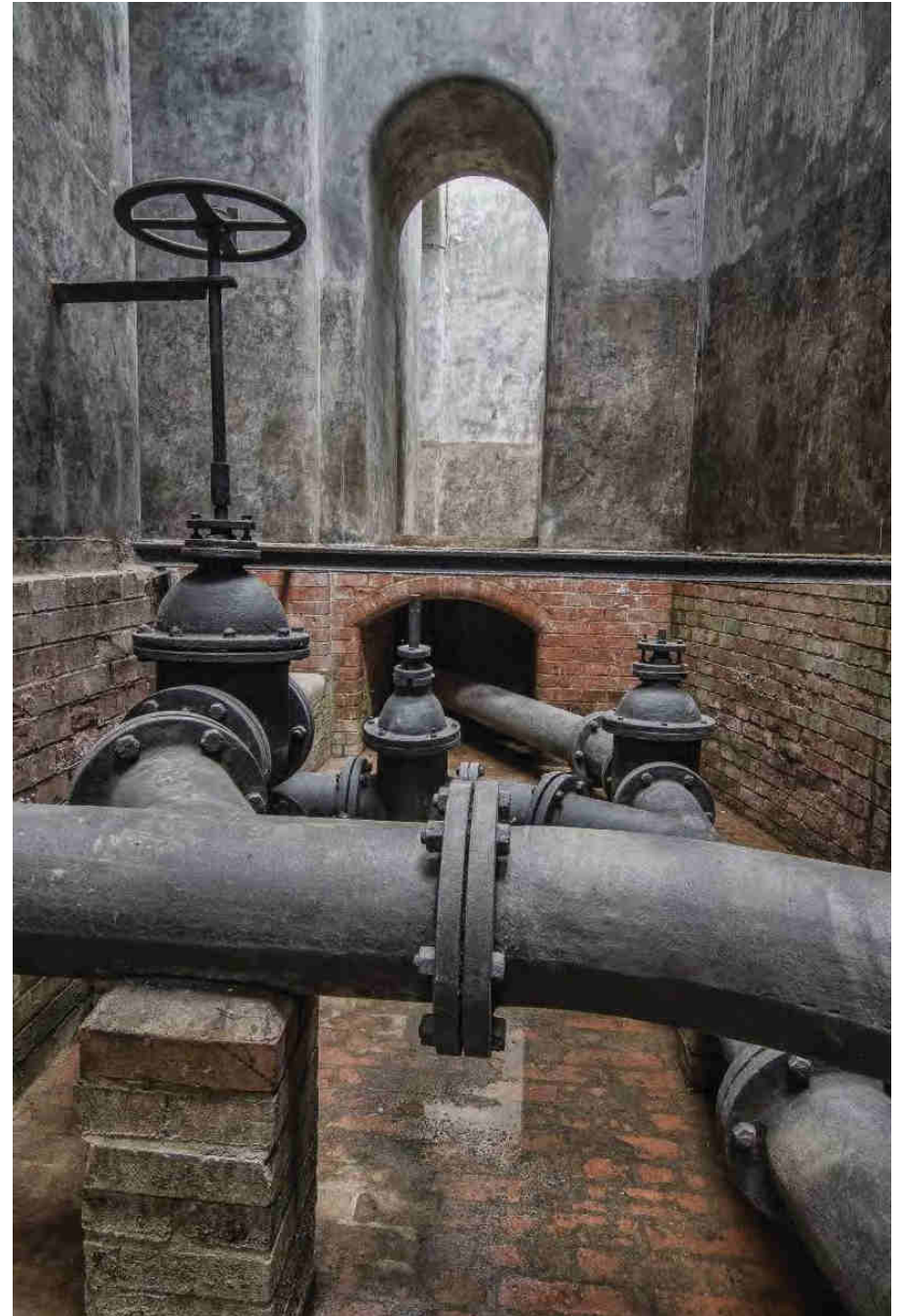
Color retouching was made by mural paintings restorers



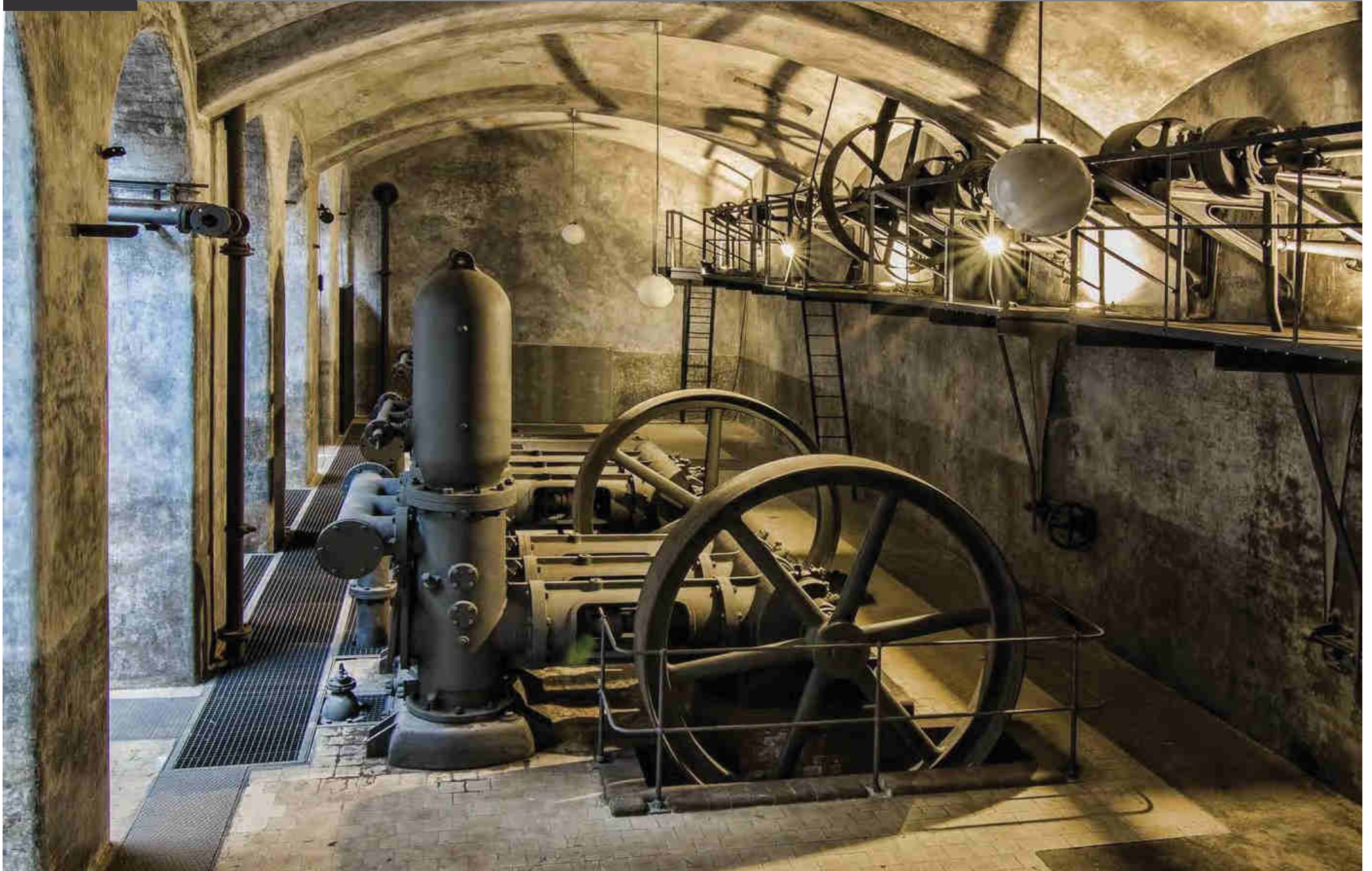
RENOVATION



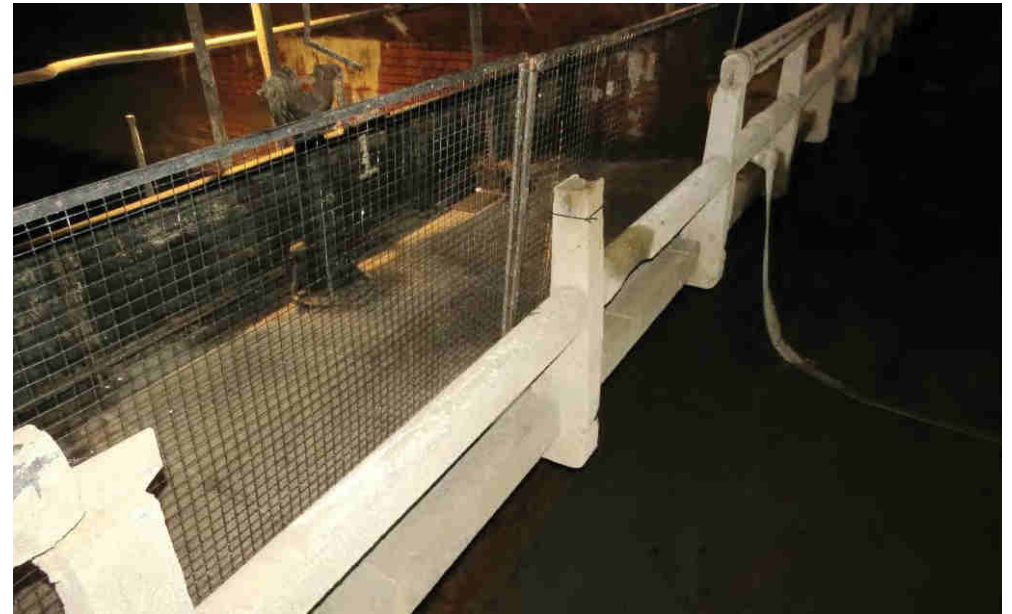
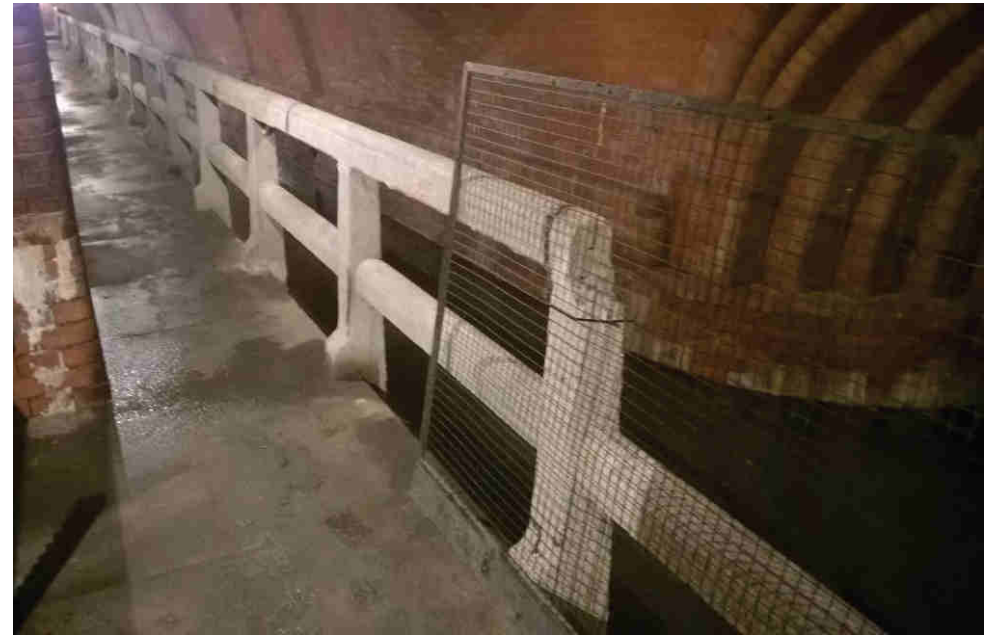
Final appearance after retouching



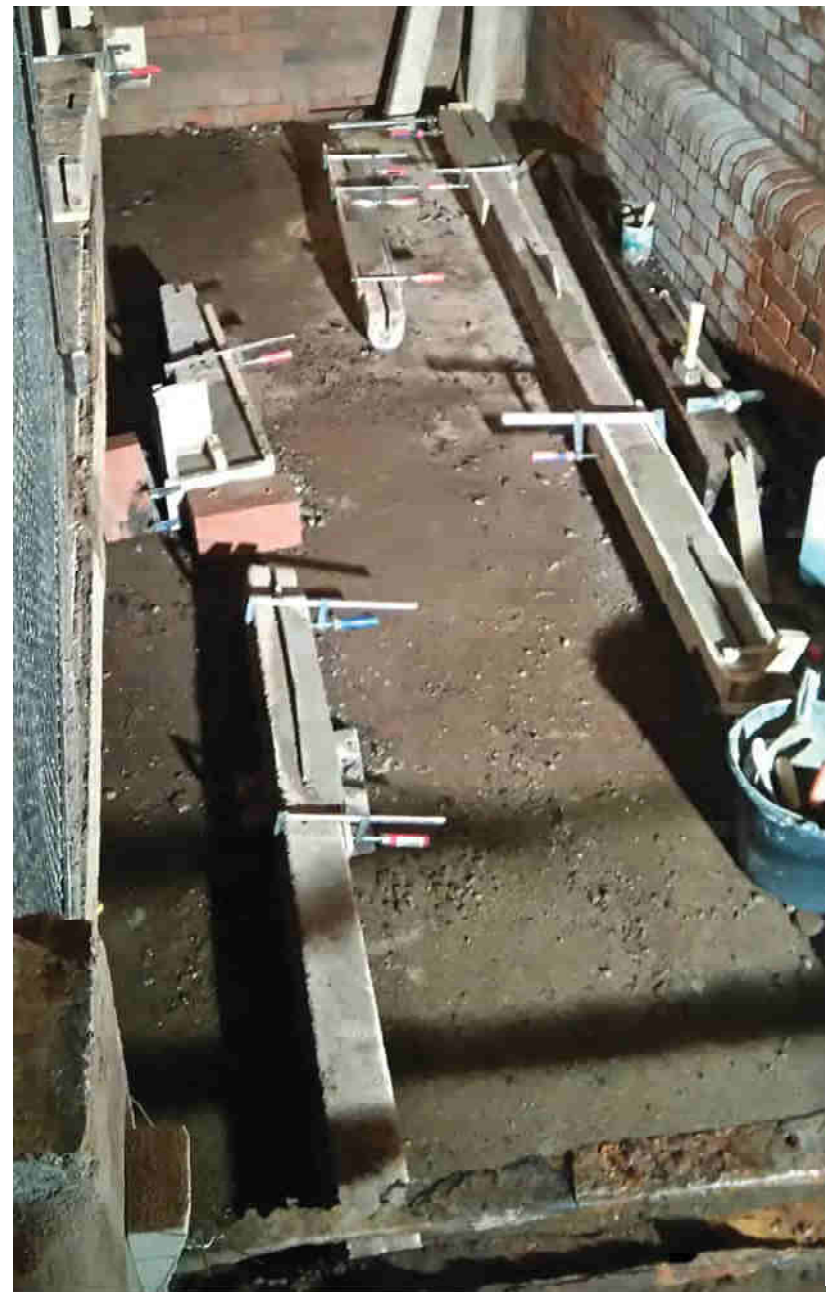




# Concrete railings before treatment

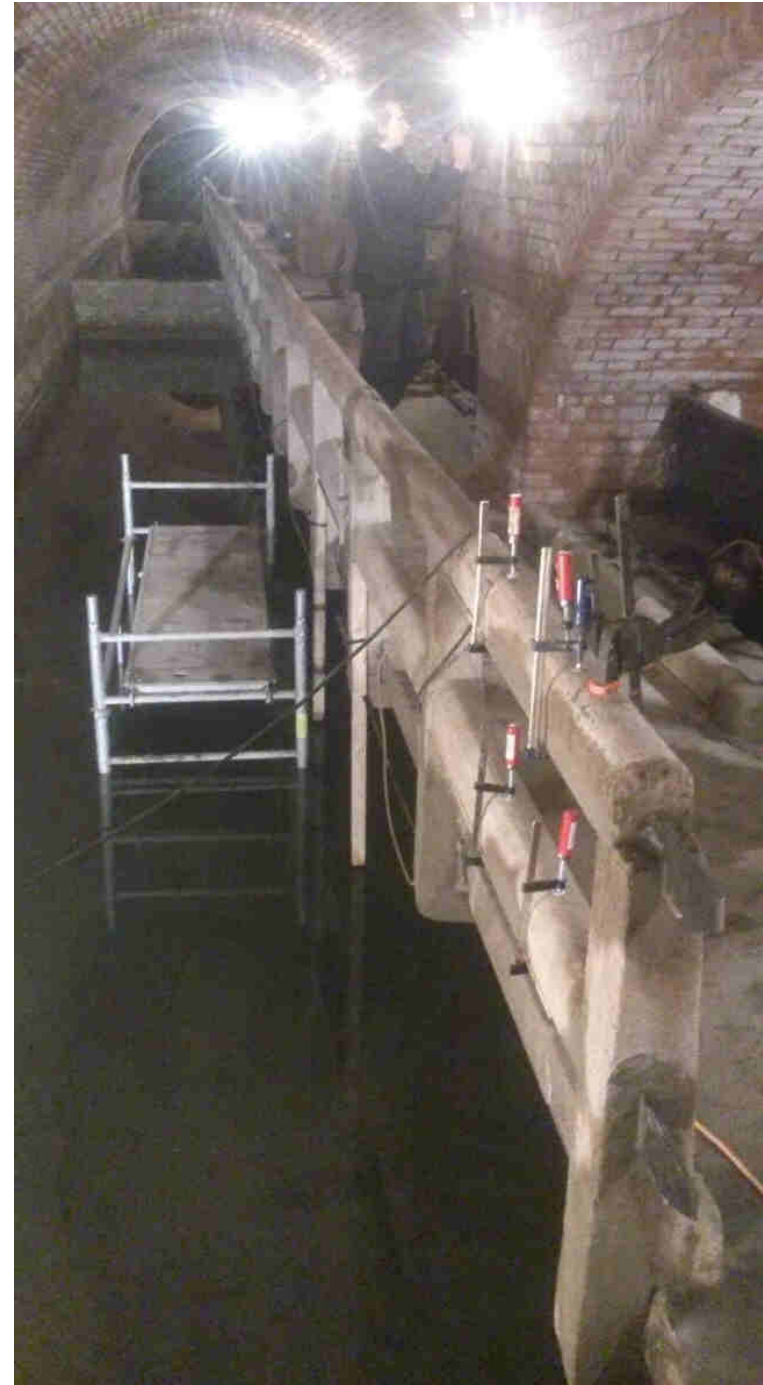


# Restoration of concrete railings

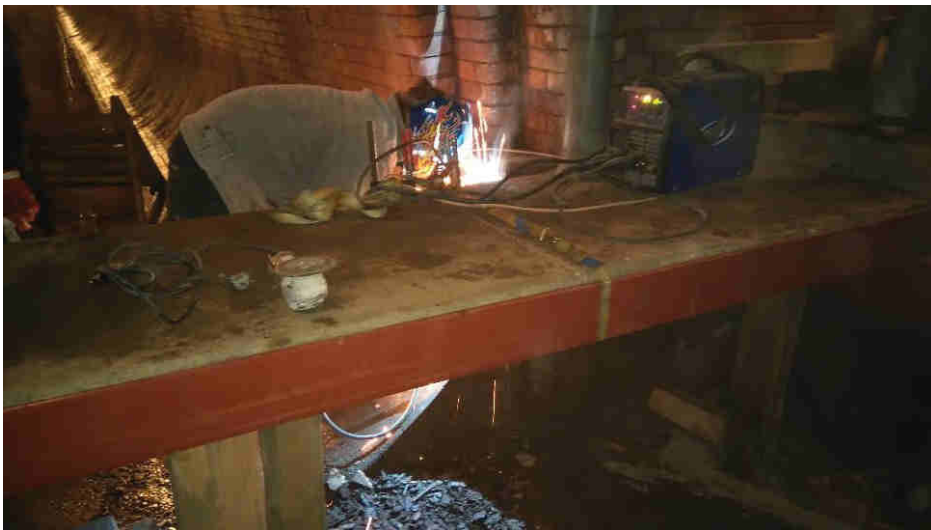
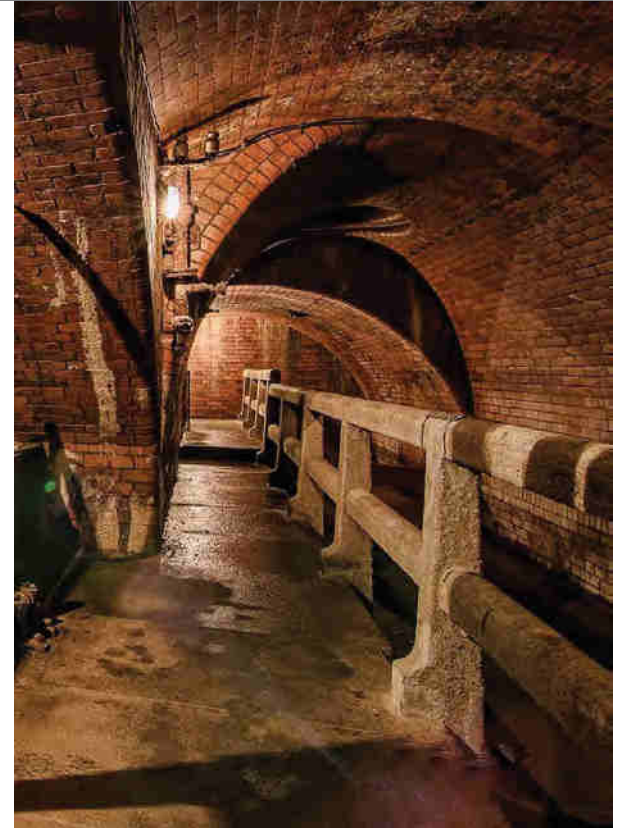


# Restoration of concrete railings and stair landings

RENOVATION

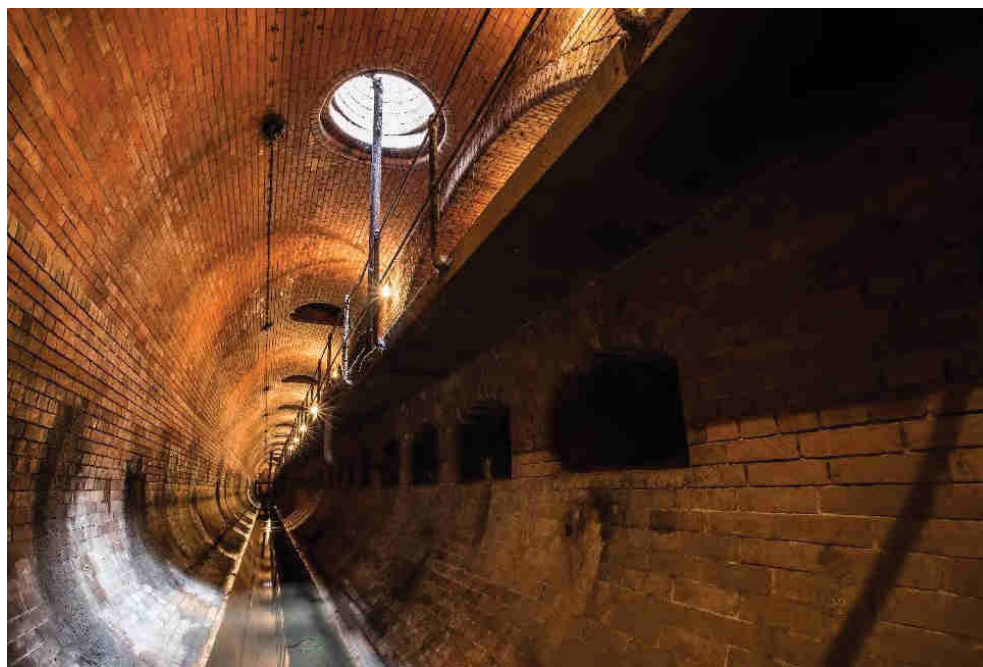
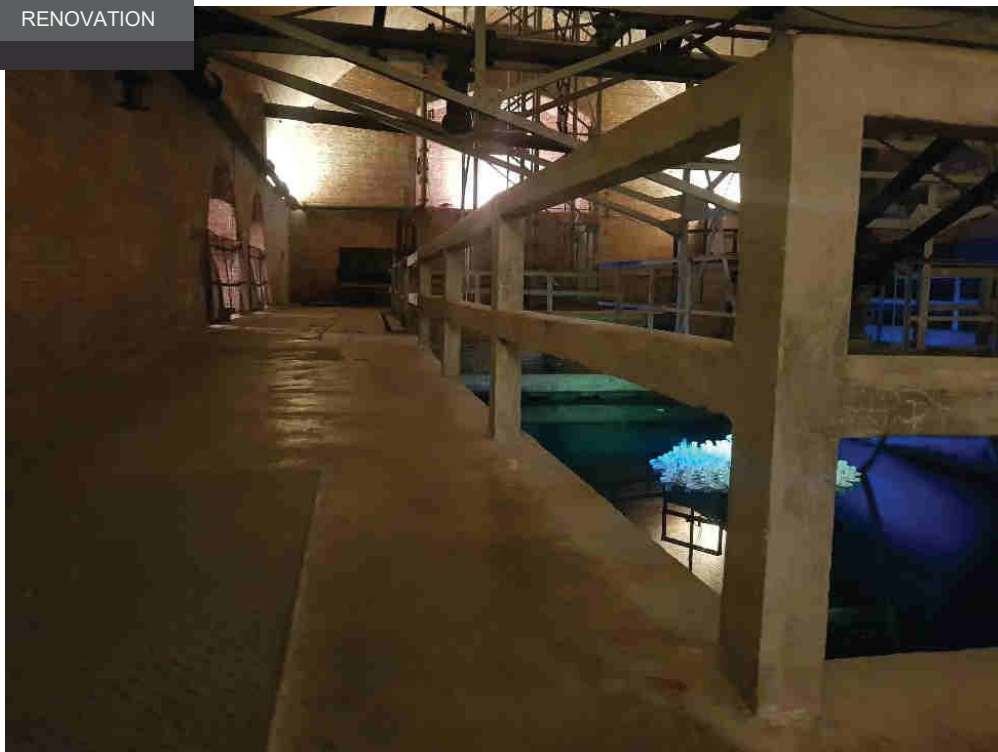


# Restoration of concrete pavements



# Concrete elements after renovation

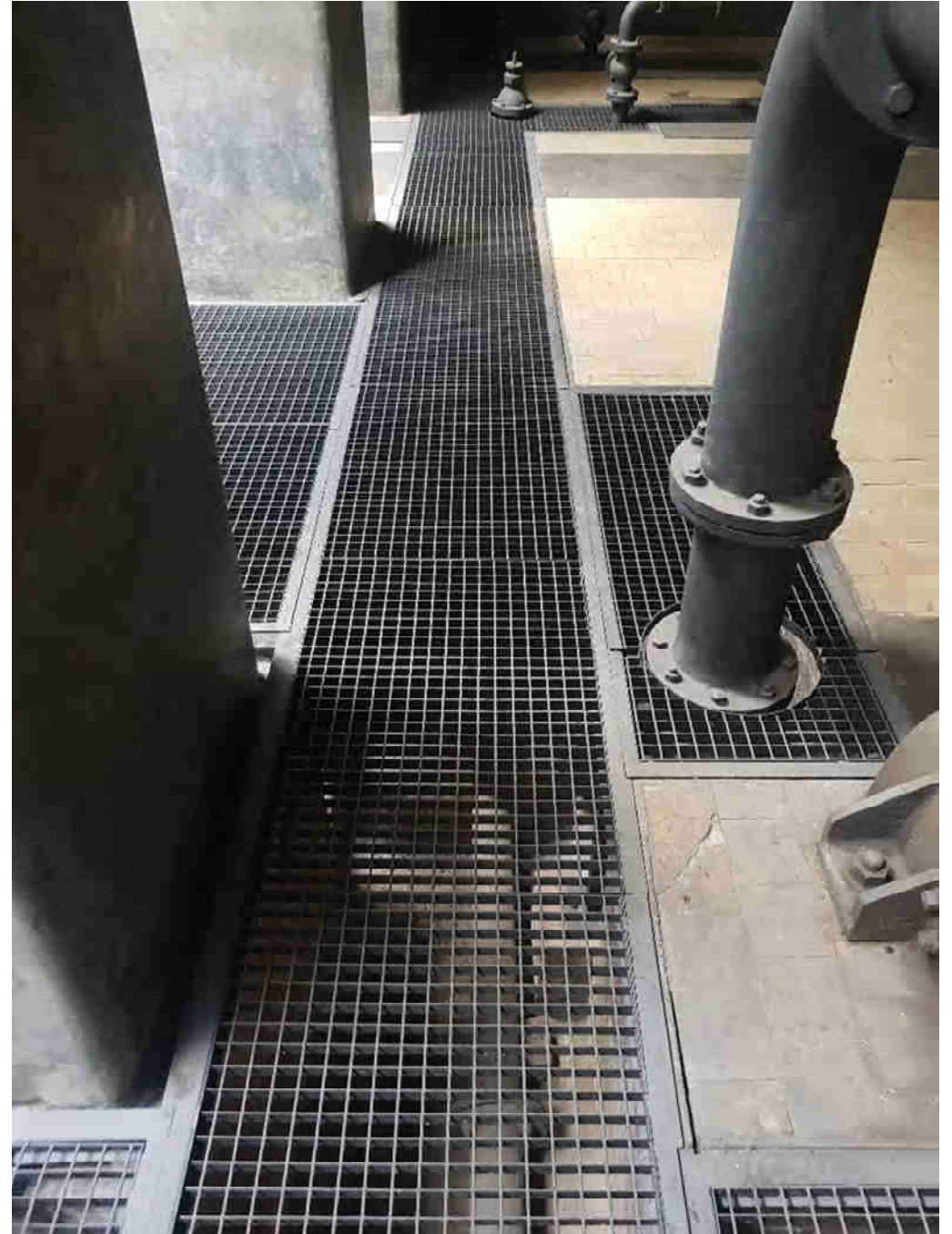
RENOVATION

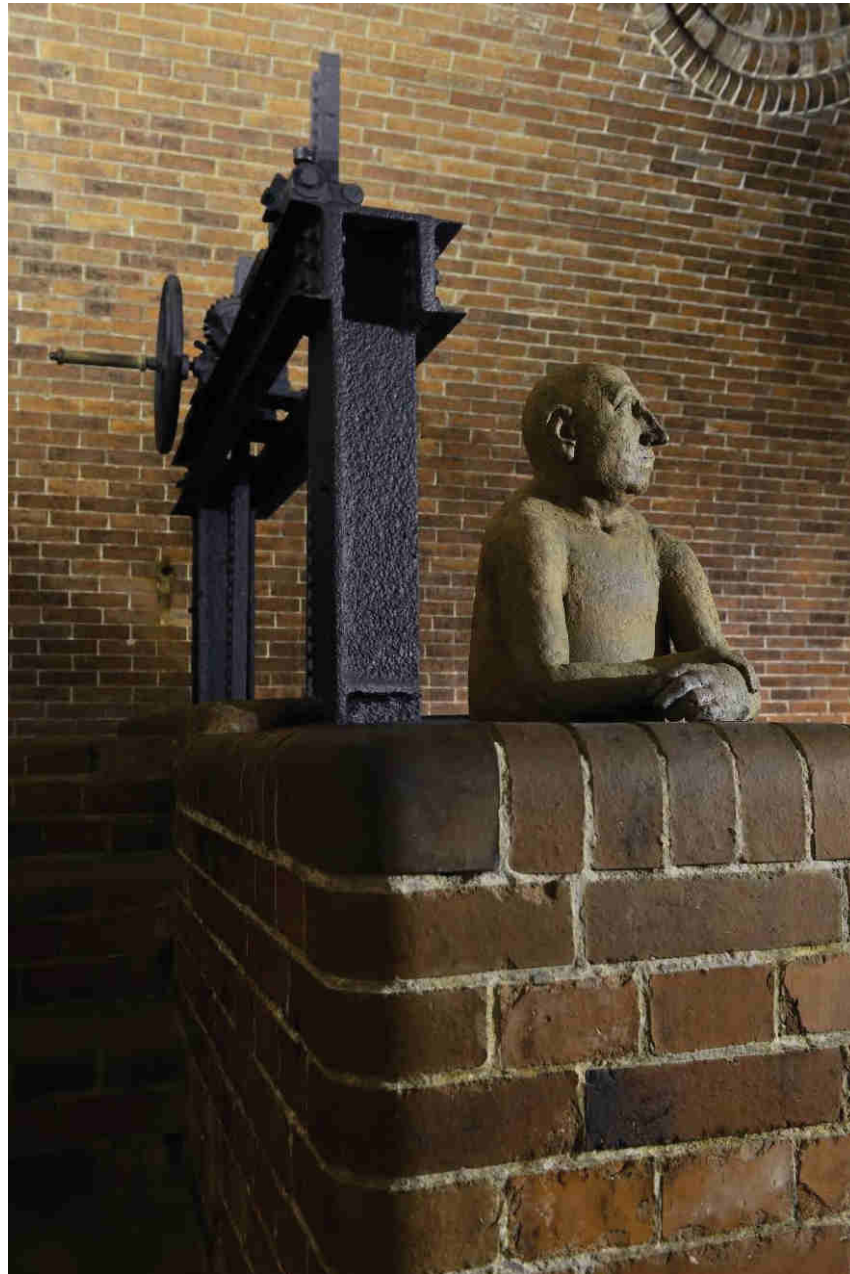


RENOVATION

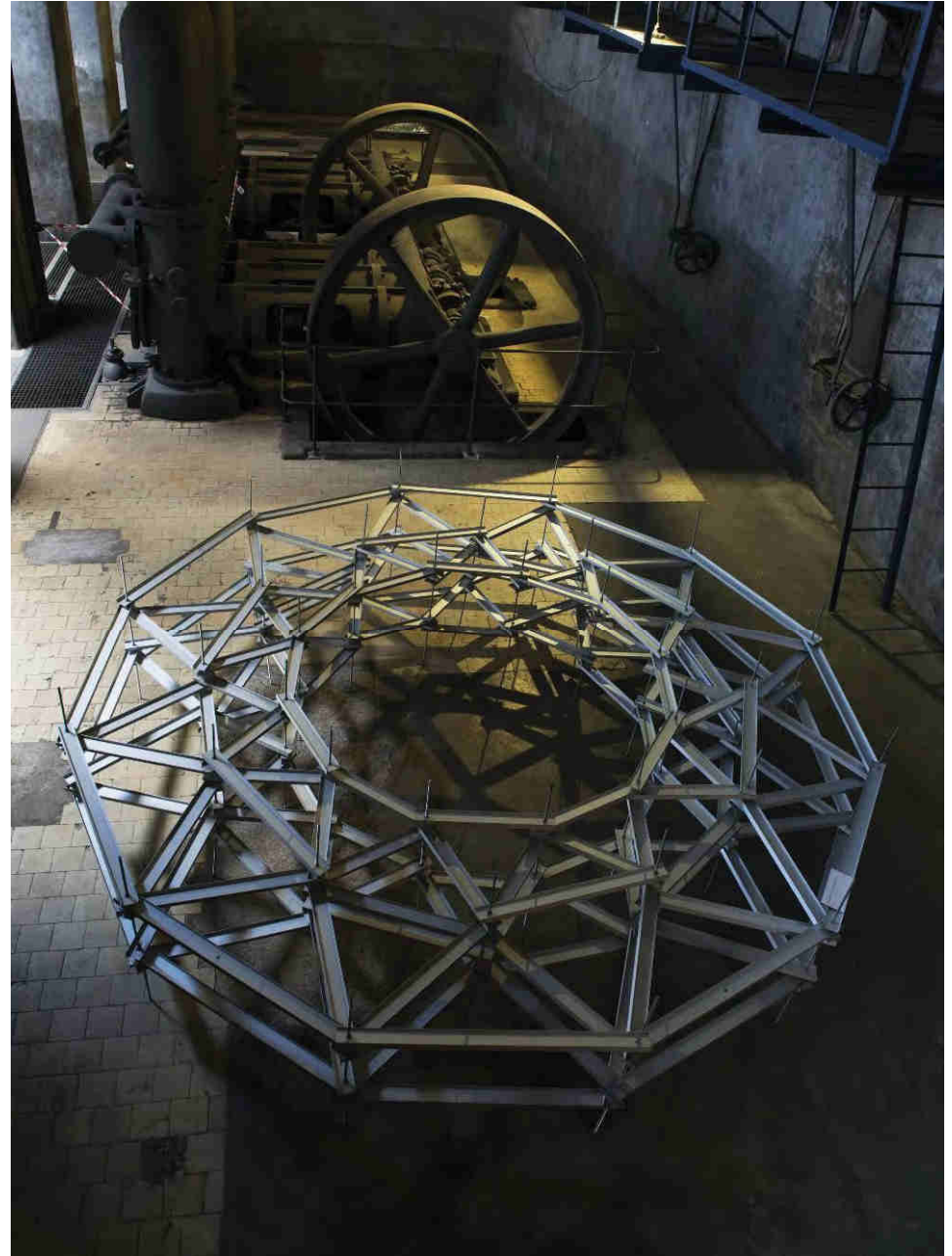


Details









# WHY DO WE DO IT ALL?

PAST - FUTURE



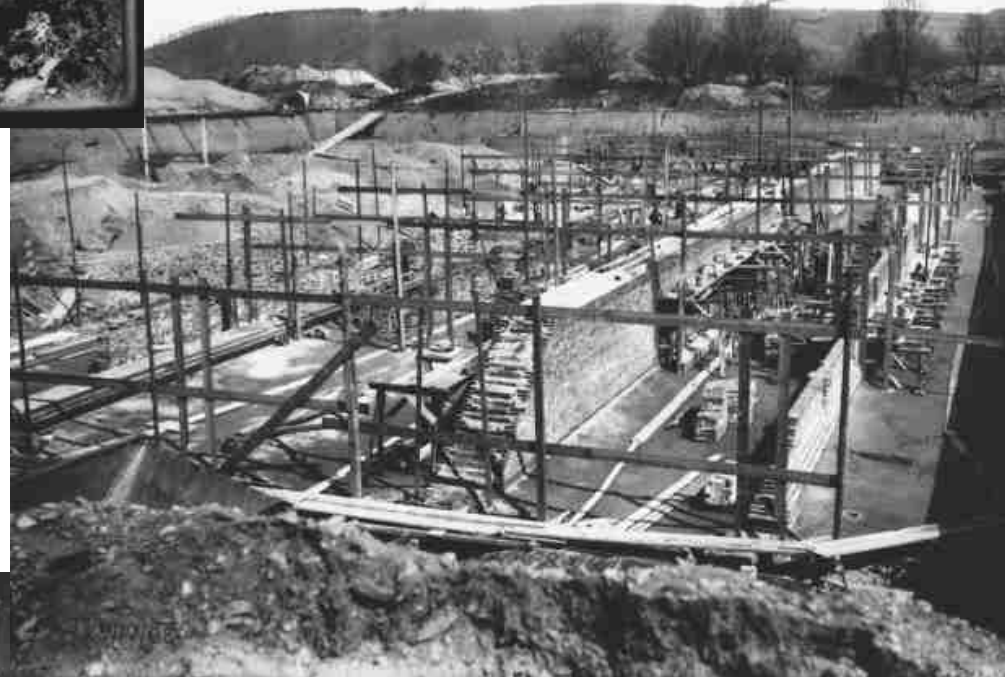
2018

PAST - FUTURE



1906

# The Documentary 1943



PAST - FUTURE

