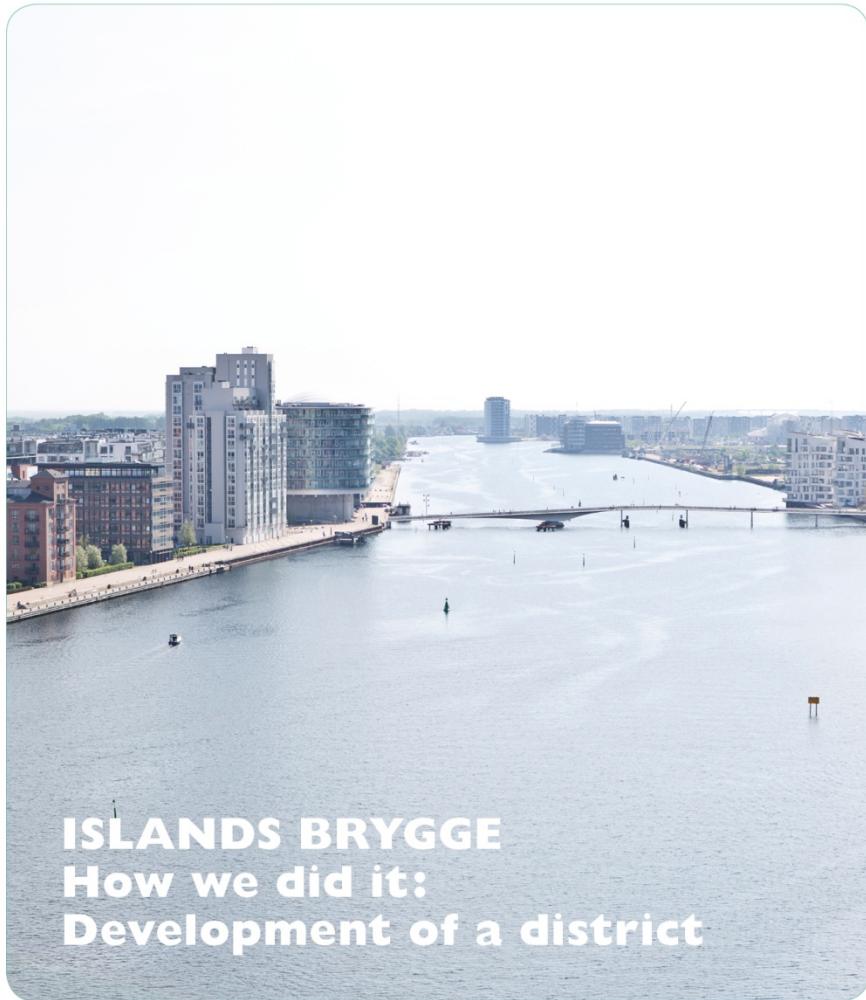


# URBAN MANAGEMENT AND DEVELOPMENT

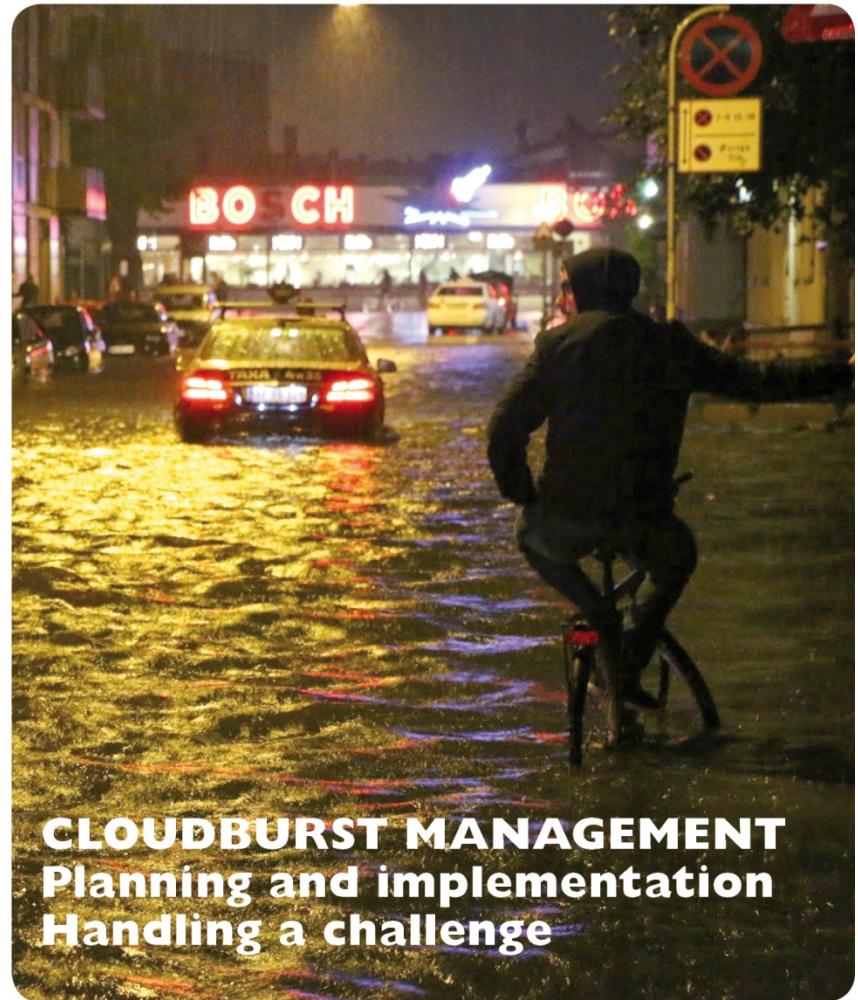
**PERNILLE ANDERSEN**  
**CHIEF EXECUTIVE DIRECTOR**  
**TECHNICAL AND ENVIRONMENTAL ADMINISTRATION**  
**CITY OF COPENHAGEN, DENMARK**



# CITY OF COPENHAGEN TWO CASES



**ISLANDS BRYGGE**  
**How we did it:**  
**Development of a district**



**CLOUDBURST MANAGEMENT**  
**Planning and implementation**  
**Handling a challenge**



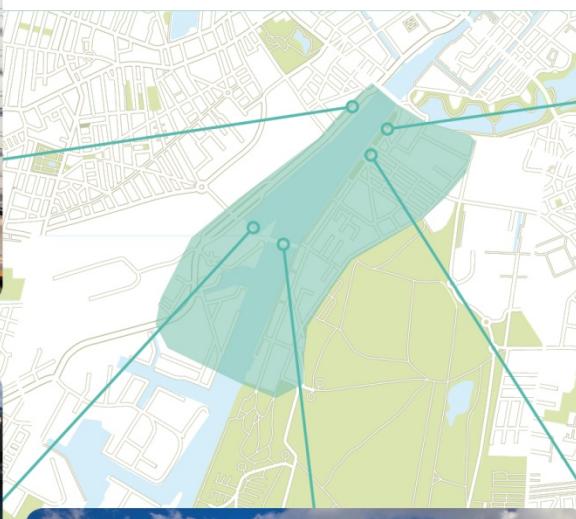
CASE I  
ISLANDS  
BRYGGE

**POLITICAL DECISION:  
IT SHALL BE POSSIBLE TO GO  
FOR A SWIM IN THE HARBOUR**

# PUBLIC INVESTMENTS



MAKE UP FOR EARLIER MISTAKES



EASY ACCESS



FREE SWIM



CULTURE VENUE

EASY ACCESS

# PRIVATE INVESTMENTS



STRONG CAPITAL



ENERGIZING THE CITY



COMPROMISING



HOUSING



AUTHENTICITY

# A NEW LIVEABLE DISTRICT

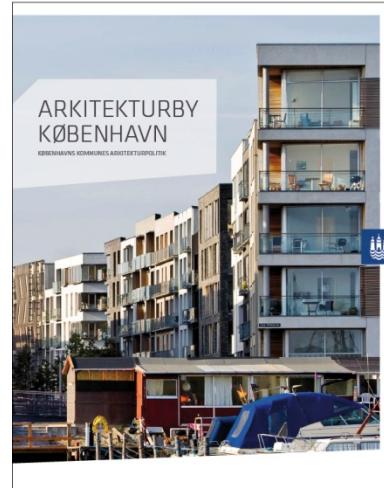
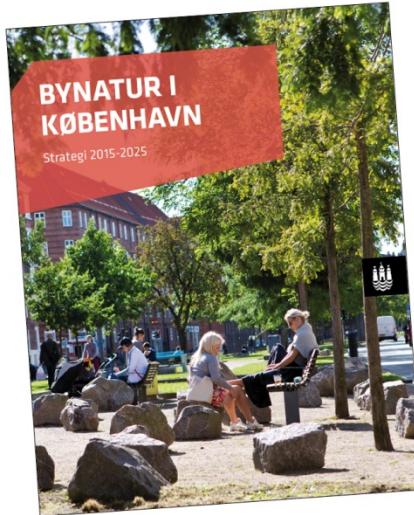


A wide-angle photograph of a flooded street in Copenhagen. The water covers the entire width of the street, with cars driving through it and people walking on the sidewalks. In the background, there are multi-story buildings, some with signs for "MORGAN" and "fotocafeen".

**CASE 2  
CLOUD-  
BURST  
MANAGE-  
MENT**

**MAIN PRIORITY:  
LEAD RAINWATER AWAY FROM STREETS  
AND BASEMENTS ACROSS THE CITY**

# UNDERLYING STRATEGIES

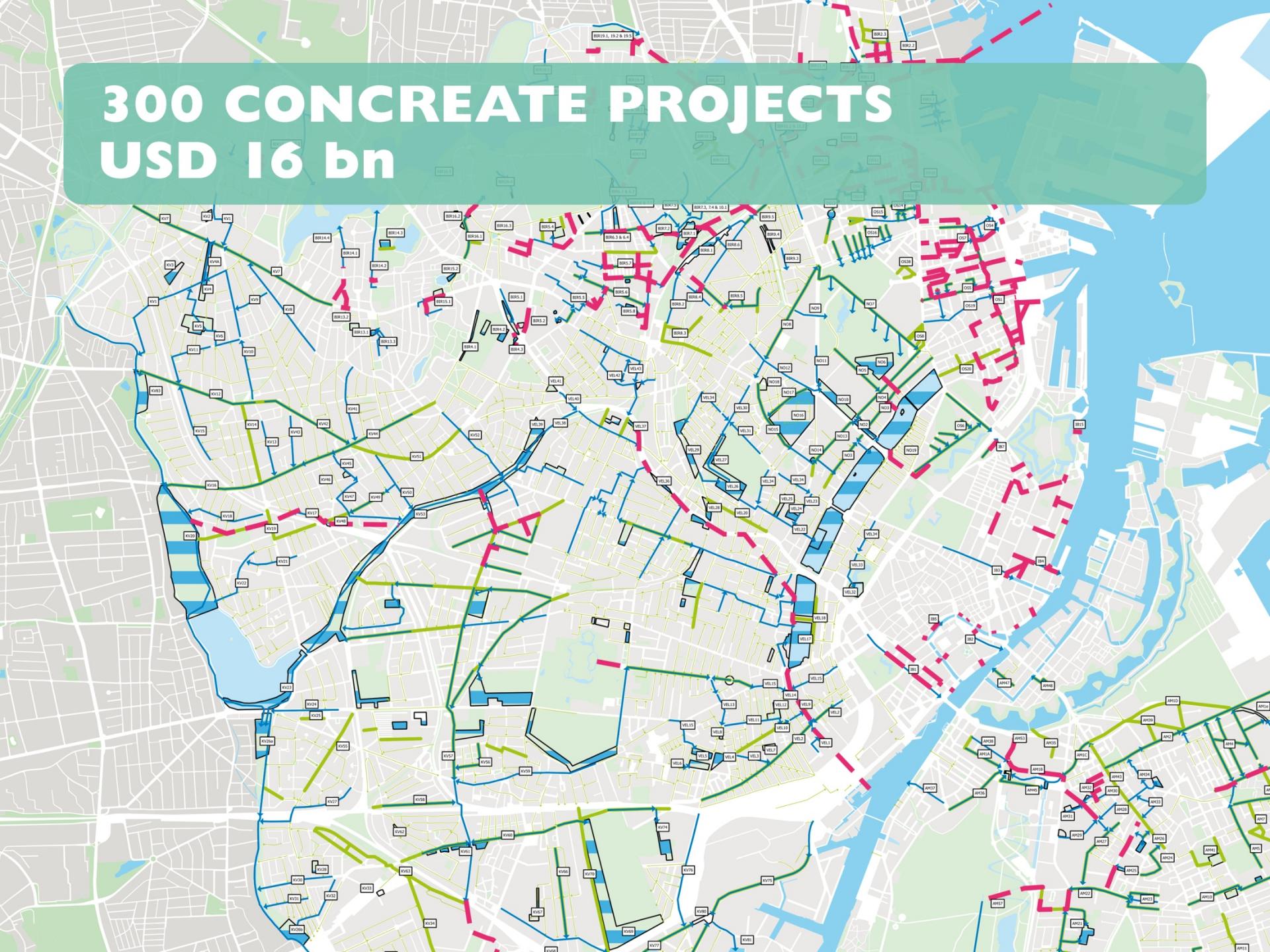


# PREPARING THE PLAN

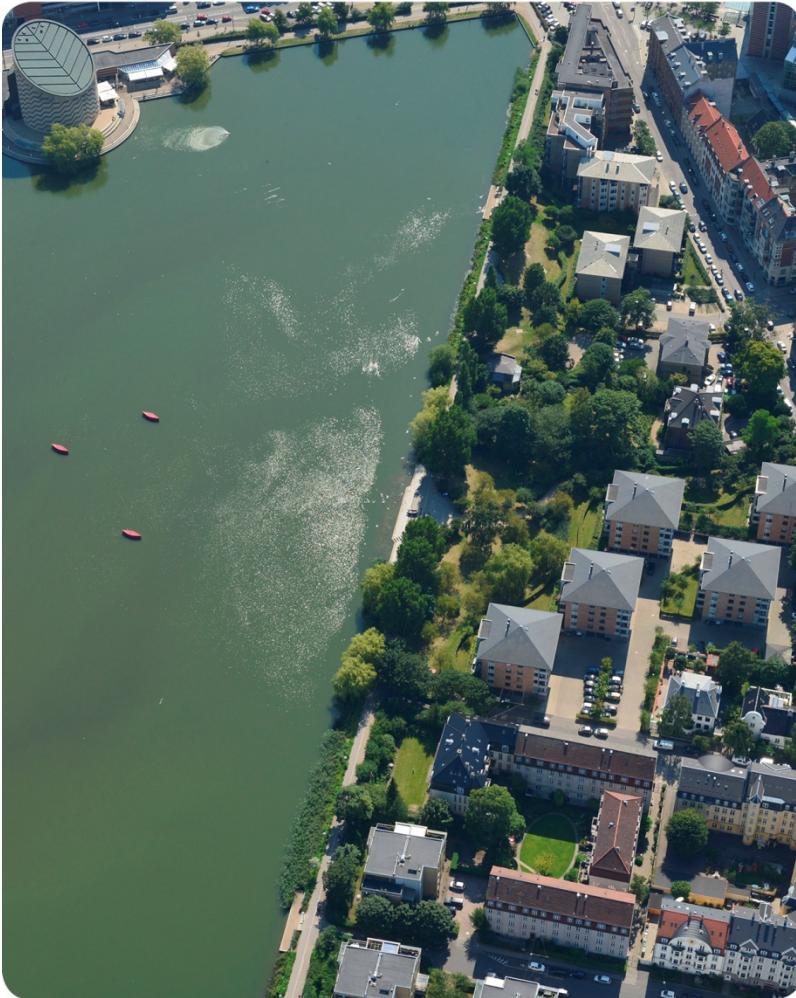


# **SEVEN WATER CATCHMENTS DEVELOPED WITH CONSULTANTS, EXPERTS AND LOCAL COMMITTEES.**

# 300 CONCREATE PROJECTS USD 16 bn



# AN EXAMPLE: SANKT JØRGENS LAKE



# ADDED VALUE



URBAN OPEN SPACE



PUBLIC INVOLVEMENT



GREEN CITY



INTEGRATED SOLUTIONS

# **IMPORTANT TOOLS**

- 
- **CLEAR GOALS, GENEREL STRATEGIES AND FINANCING**
  - **PUBLIC-PRIVATE COOPERATION**
  - **CO-CREATION WITH CITIZENS**
  - **INTEGRATED APPROACH TO ENHANCE RESULTS**



MAIN  
CONCLUSION

**URBAN MANAGEMENT DEMANDS  
POLITICAL COURAGE, LONG-TERM  
PLANNING AND CLEAR PRIORITIES**



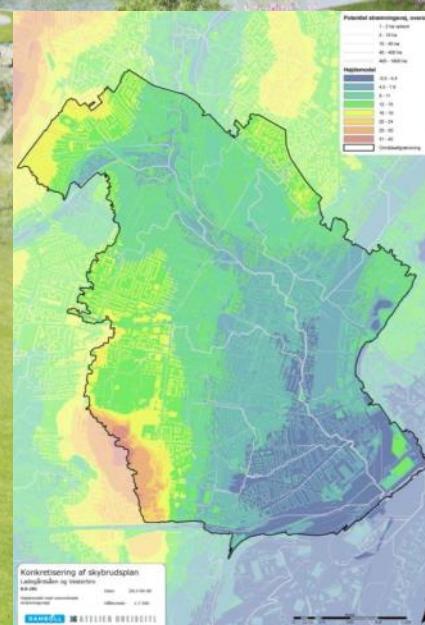
# PLANNING AND IMPLEMENTING FLOOD PROTECTION IN LIVEABLE CITIES

CHRISTIAN NYERUP NIELSEN  
GLOBAL SERVICE LINE LEADER – GREEN INFRASTRUCTURE AND RESILIENCY

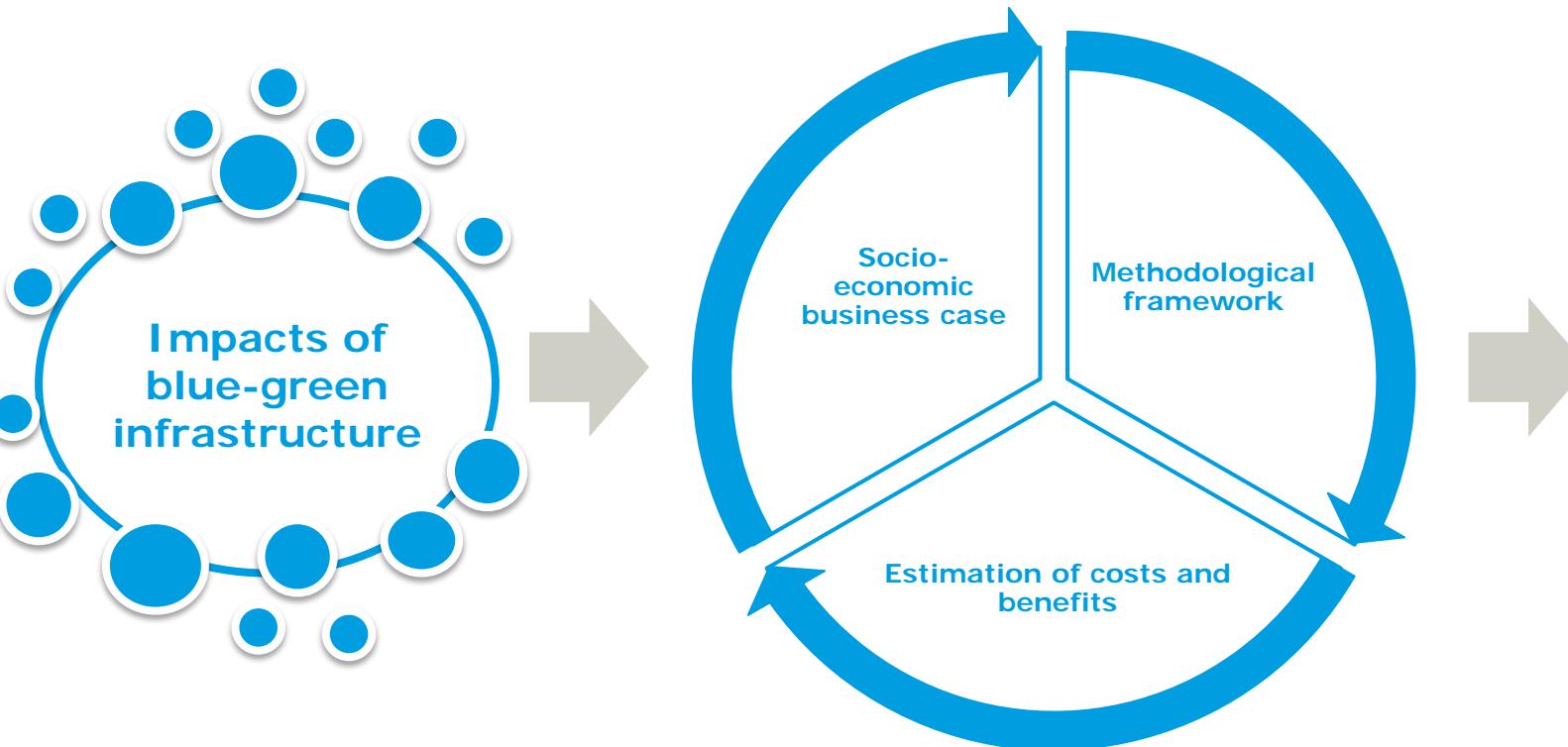
# INTEGRATED PLANNING OF MULTIFUNCTIONAL INFRASTRUCTURE



# RESILIENCY, MOBILITY, SAFETY, SOCIAL, BIODIVERSITY AND HEALTH



# CALCULATING COSTS AND BENEFITS

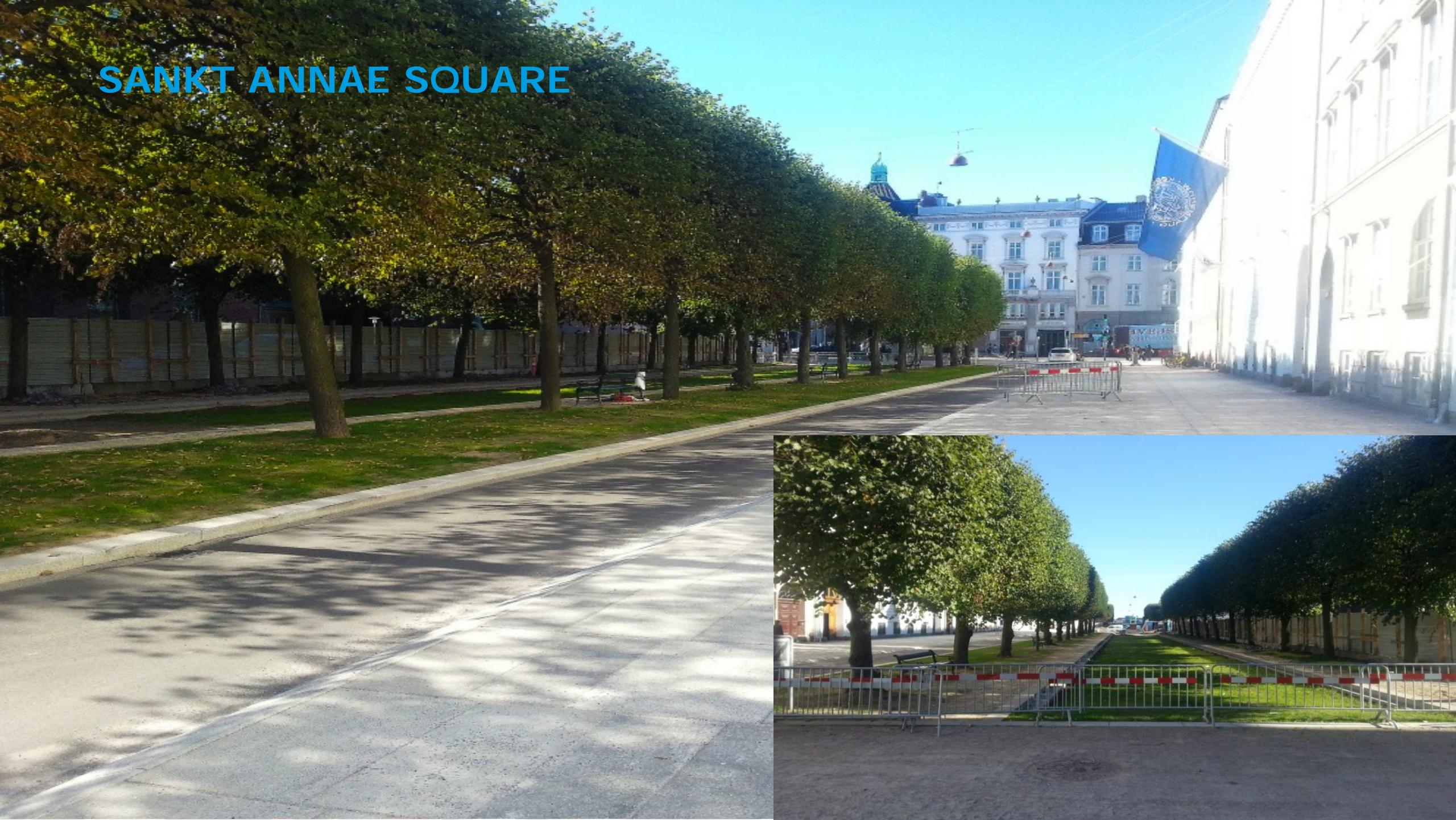


NPV in Mio. €	Master Plan 1	Master Plan 2
Air pollution	22	21
Real estate taxes	42	42
Insurance damages	320	349
Real estate value	151	150
Renewal/upgrade savings	96	96
Municipal investment	-75	-71
Utilities investment	-260	-368
Municipal operational costs	-96	-72
Utilities operational costs	-58	-68
<b>Total</b>	<b>142</b>	<b>78</b>

# ROYAL GARDENS – UPSTREAM RETENTION IN PARK



# SANKT ANNAE SQUARE



# TANNER SPRINGS PARK



# BISHAN PARK - SINGAPORE



# CHICAGO LAKESIDE



# SAN FRANCISCO CIVIC CENTRE



