



**RESILIENT**

**THE HAGUE**



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**COVID-19 and Heat: Concurrent Risks**

18 June 2020



# GLOBAL **HEAT** HEALTH INFORMATION NETWORK

1. Common **public health actions to reduce heat-related illness and death** may **need to be modified** in locations where they are restricted, unavailable or in contradiction to public health measures to limit the transmission of COVID-19.
2. Many vulnerable groups are susceptible to **both COVID-19 and heat stress**, including older people; those with pre-existing medical conditions; those with limited access to healthcare; and those living in crowded or poor quality housing conditions.

## Coronavirus Makes Cooling Centers Risky, Just as Scorching Weather Hits

Officials are scrambling to find ways to protect residents against dueling threats of extreme heat and the coronavirus.



American cities traditionally rely on cooling centers to protect the most vulnerable. Above, a center for older people near Times Square in 2006. *Ozier Muhammad/The New*

## In Transvaal zijn de inkomens lager, en de kans om met corona op de ic te komen hoger



Door Den Haag loopt de Laan van Meerdervoort. Aan de ene kant woon je op het zand, dat is het welvarende gedeelte. Aan de andere kant ligt het veen, het arme deel. *Beeld Arie Kievit*

Inwoners van de Haagse wijk Transvaal hebben, als ze corona krijgen, grotere kans op complicaties dan die van

# Heat and COVID-19, the silent killer



Heat and Covid-19:  
urgency of the  
problem



City Facts  
The Hague



City response



Activities on heat  
and COVID-19  
with other cities

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# The Hague – city of peace and justice



- Population: 545.163
- 176 nationalities

## COVID-19

- Registered deaths: 234
- Expected unemployment 2019: 9,5%,  
2020: 12,6% (*before the crisis: 5,1%*)
- Visits Scheveningen and city center decreased by around 80%
- 30% of respondents of The Hague survey feel more fear and stress



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# Shocks

&

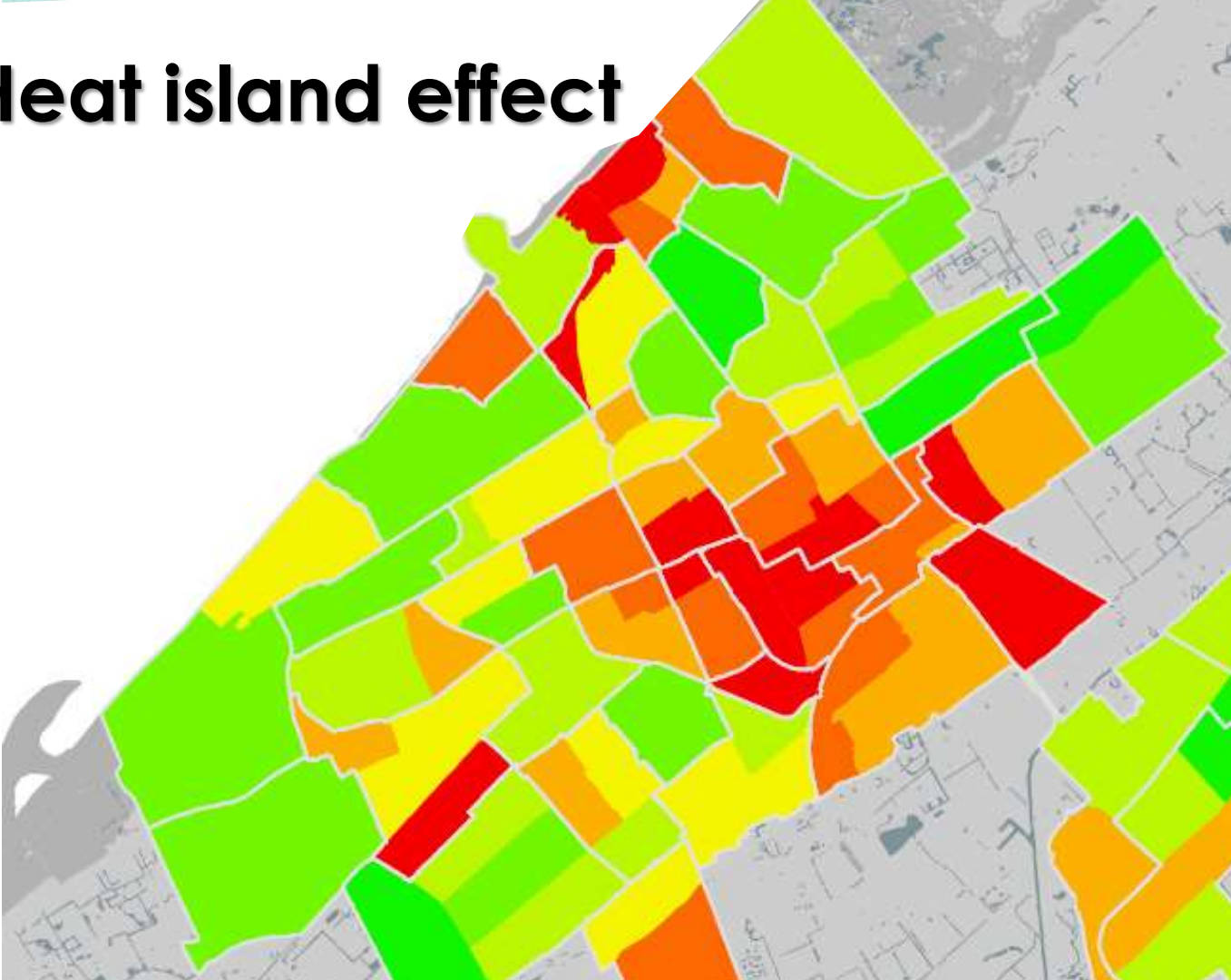
# Stresses

- Cyber attack
- Civil unrest
- Discontinuity of critical services
- Extreme weather
- Flooding
- Pandemic
- Terrorism

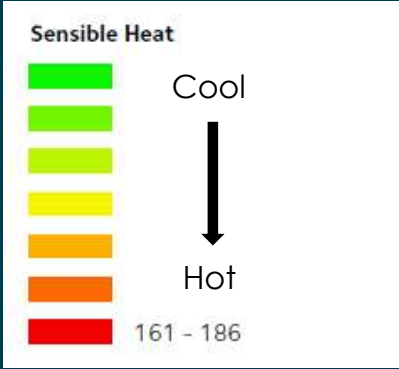


- Climate change
- Digitisation and new technology
- Inclusive education and capacity building
- Leadership and effective management
- Limitations in the transport network
- Growth of the population
- Poverty and inequality
- Segregation, polarisation and social cohesion
- 'Undermining' of society
- Unemployment
- Uneven health outcomes

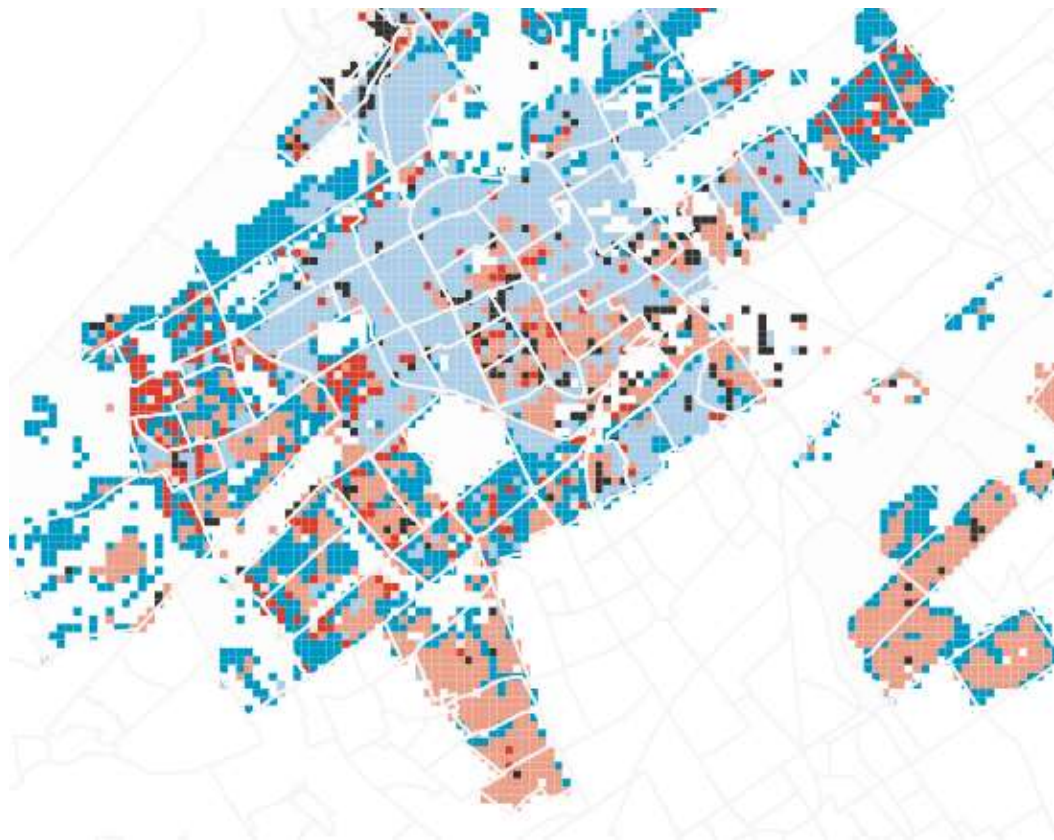
# Heat island effect



Sensible heat



# Heat island effect



**DODEN HITTEGOLF**

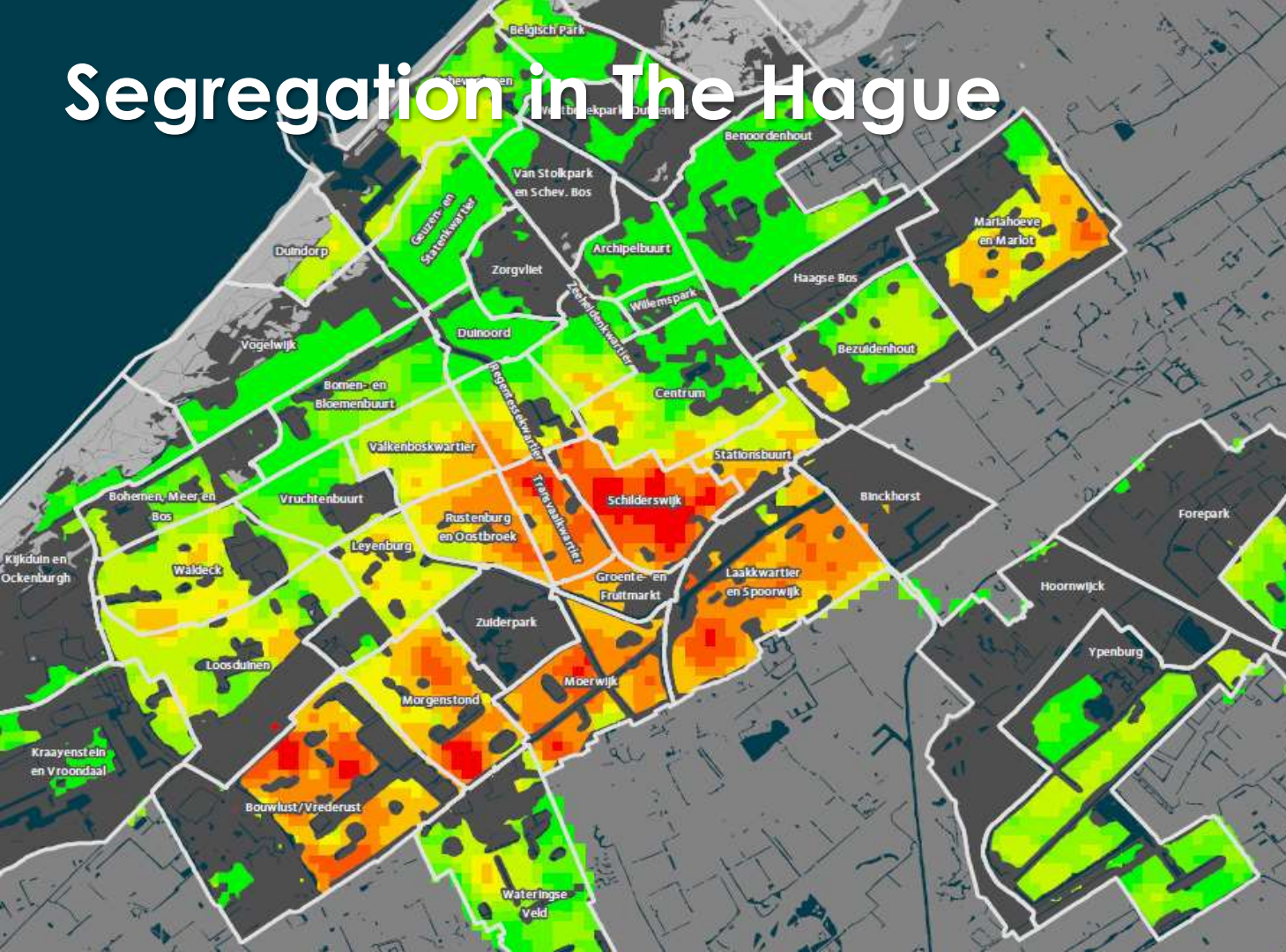
**400 DODEN MEER DAN NORMAAL TIJDENS HITTEGOLF**

## **400 extra doden tijdens hittegolf in juli**

Tijdens de hittegolf van eind juli zijn bijna 400 personen meer overleden dan in een gemiddelde zomerweek. Tussen 22 en 28 juli registreerde het Centraal Bureau voor de Statistiek (CBS) 2964 sterfgevallen.



# Segregation in The Hague

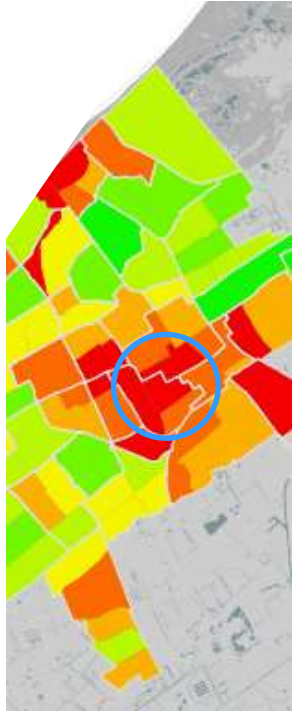


## Liveability index

-  Physical environment
-  Employment
-  Services
-  Safety
-  Housing

# Policy solutions

IMPACT HEAT WAVE



VULNERABLE CITIZENS

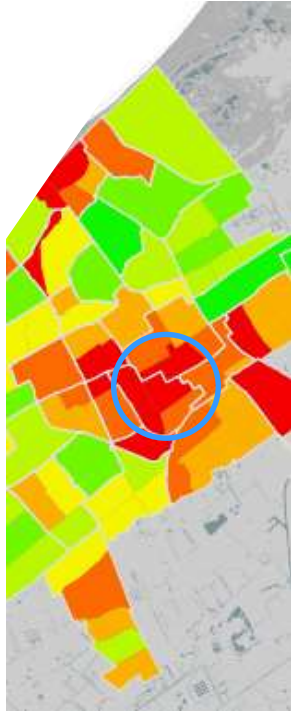


GREEN ROOFS SUBSIDY



# Policy solutions

IMPACT HEAT WAVE



VULNERABLE CITIZENS

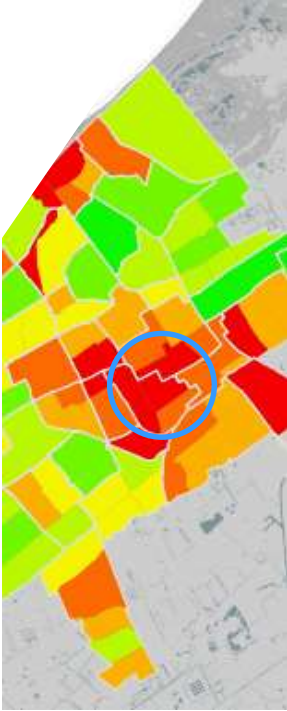


DISTANCE TO GREEN SPACE



# Policy solutions

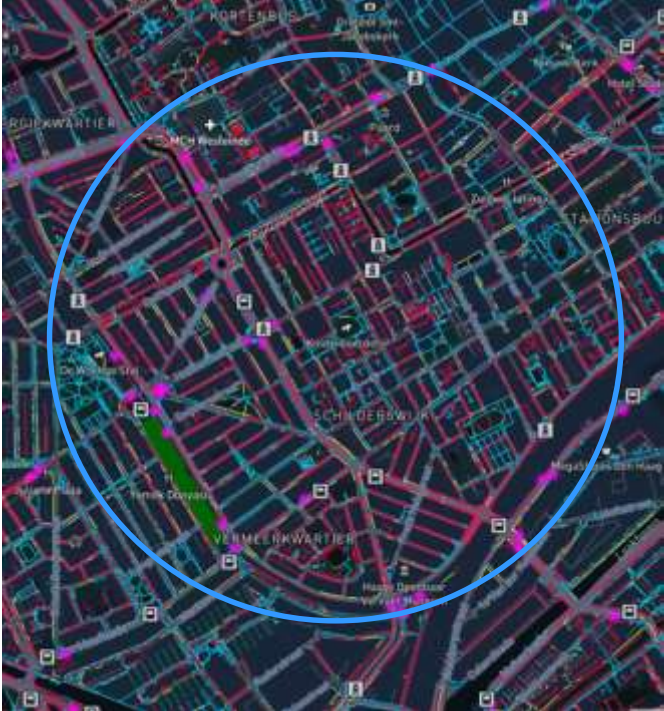
IMPACT HEAT WAVE



VULNERABLE CITIZENS



POSSIBILITY SOCIAL DISTANCING



# City response



**A**

**Short term:**  
Local heat plan

**B**

**Medium term:**  
Risk communication

**C**

**Long term:**  
Climate change adaptation

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# A

## Short term: Local heat plan

- Communication plan
- Essential to reach the vulnerable people
- Use the communication channels for COVID-19
- Use local newspapers
- Use the food distribution channels in place for COVID-1, information on heat is included to the packages.
- *Extrema app?*
- *Cooling centers / cool streets?*



Ben jij goed voorbereid op de hitte?  
Doe hieronder de supersnelle check en zorg dat je genoeg water drinkt!

Streek elk leeggedronken glas af. Zo weet je zeker dat je per dag voldoende drinkt.

 VOLDOENDE DRANKEN (ZIJN AUCHER)!	 GOED VOORBEREID DE SLEUT LIFT	 ZONBESCHERMING OF GOEDEN DICH DOEN?
 AERDSTROMEN OF VENTILATOR IN HUIS HAVEN!	 HANDEN OF HUISDIEREN NIET IN DE WAGEN OF AUTO LATEN!	 OF JEZELF EN IEN ANDER LITEN ?
 CONTACT ONS NIEUW MET DE APP GATE IN DEN NOOD!	 IN DE SCHADUW ZITTEN!	 EMBO APP OP TELEFOON ZETTEN!

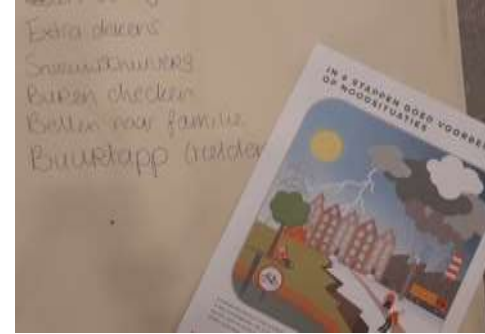
Ma   
Di   
Wo   
Do   
Vr   
Za   
Zo

✓ Vink aan!

Kijk elke dag naar de checklist en vink aan welke voorbereidingen jij hebt getroffen.

## B Medium term: Risk communication

- Develop awareness vulnerable population
- Risk awareness training together with Red Cross



C

## Long term: Adapting the physical space





C

## Long term: Adapting the physical space



# C

## Long term: Adapting the physical space



In the new **CROMVLIETPARK** we reuse rainwater with the **URBAN WATERBUFFER**.



# Action heat and COVID-19 other cities



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# Urgent questions and needs

- How to promote heat safety in the context of social distancing?
- Evidence based research for heat mitigation in planning and design.
- Promoting quick cooling options with minimal contact and environmental impact

**Community of  
Practise**



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