

# Moving collections in an emergency



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KB } national library  
of the netherlands

# KB national library of the Netherlands, The Hague



1982 main building, reading rooms  
and (underground) storage



2007 additional storage



# Physical collections

Books	3.500.000
Periodicals	700.000
Newspaper	100.000
Special collections	575.000

Total > 4,4 million items  
125 linear kilometres





# Challenge

Current location is not ‘future-proof’:

- Renovation is too costly
- Long term exploitation is not sustainable:
  - Active climate control (HVAC)
  - Systems out of date
  - Huge replacement costs
  - Increasing energy costs

Our new storage facility is not ready until  
2026/2028

Our current building is not properly maintained





# Challenge

Installations and systems (hardware and software) in current building are beyond lifetime.

- Increased risk for flooding
- Increased risk for fire
- Increased risk for mould





### 31 May 2019 KB national library

Clean water from a burst drainage pipe leaked about 8.000 liters in the underground storage.

The excess water was quickly removed, but it took several days for the concrete to dry and the RH to drop below 60%. Building driers were used to collect the moisture from the air.



# What to do for emergency preparedness?

Standard practice:

- Update emergency preparedness plan
- Emergency organisation: crisis team, collection-help-team
- Staff training in crisis management, collection salvage, fire extinguishing
- Regular exercises – table top and simulations

In addition:

- Creating a risk map
- Plotting collection priorities



## Kavel plattegrond

### Legenda

- 01A**  
 Prio 3  
 Kavel 3 - NL kranten
- 01B**  
 Prio 3  
 Kavel 3 - NL kranten
- 01C**  
 Prio 3  
 Kavel 3 - NL kranten
- 01D**  
 Prio 3  
 Kavel 3 - NL kranten
- 01E**  
 Prio 6  
 Kavel 1 - NL boeken en boeken over NL
- 01F**  
 Prio 3  
 Kavel 3 - NL kranten
- RKD**  
 RKD
- BOUWDEEL D-BLOK**  
 Prio 7  
 Kavel 9 - Microfilms

- Kavel 1  
 Kavel 2  
 Kavel 3  
 Kavel 4  
 Kavel 5  
 Kavel 6  
 Kavel 7  
 Kavel 8  
 Kavel 9



## Risico overzicht



- Klimaatsturing  
 Vervuiling  
 Wateroverlast - Warmwaterbron  
 Wateroverlast - Waterleidingen  
 Brand  
 Verlichting

- Waarde 1 - Problematisch  
 Waarde 2 - Ernstig  
 Waarde 3 - Zorgelijk  
 Waarde 4 - Acceptabel

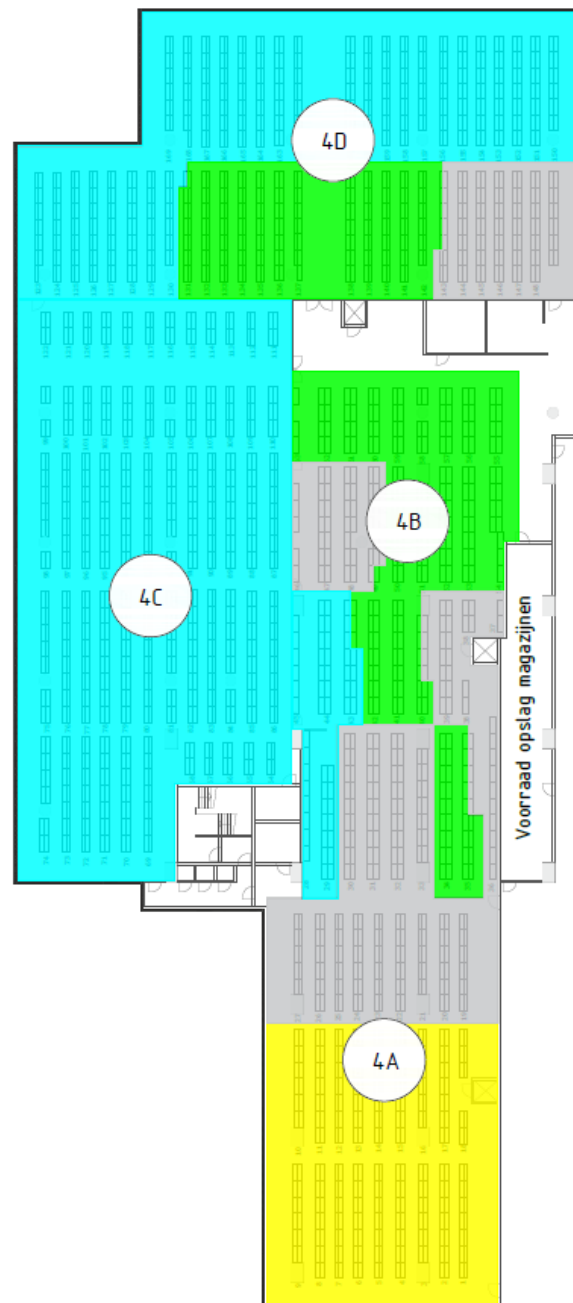


## Kavel plattegrond

### Legenda

- 4A  
 Prio 4  
 Kavel 2 - NL tijdschriften
- 4B  
 Prio 6  
 Kavel 1 - NL boeken en boeken over NL
- 4C  
 Prio 9  
 Kavel 4 - Context- en reverentiecollectie
- 4D  
 Prio 6  
 Kavel 1 - NL boeken en boeken over NL
- Prio 9  
 Kavel 4 - Context- en reverentiecollectie
- Leeg

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|---|---|--|
| <span style="background-color: green; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 1     | <span style="background-color: cyan; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 4    | <span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 7 |
| <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 2    | <span style="background-color: blue; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 5    | <span style="background-color: red; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 8    |
| <span style="background-color: darkgreen; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 3 | <span style="background-color: magenta; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 6 | <span style="background-color: purple; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span> Kavel 9 |



## Risico overzicht



-  Klimaatsturing
-  Vervuiling
-  Wateroverlast - Waterleidingen
-  Brand
-  Verlichting
-  Lekkage door constructiefout

- Waarde 1 - Problematisch
- Waarde 2 - Ernstig
- Waarde 3 - Zorgelijk
- Waarde 4 - Acceptabel


# What to do for emergency preparedness?

In addition:

- Creating a risk map
- Plotting collection priorities
- Developing 3 disaster scenario scripts with salvage experts
  - Evacuation and treatment of large parts of collection
  - Indication of costs
- Re-connect with security region first aiders (fire brigade)
- Creation of waterproof floorplans for use in an emergency
- Improve emergency documentation for quick evacuation
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