LIFE @Urban Roofs

stimulating private investment in climate adaptation - who's afraid of red, yellow, green and blue

Paul van Roosmalen - Rotterdam Municipality, The Netherlands



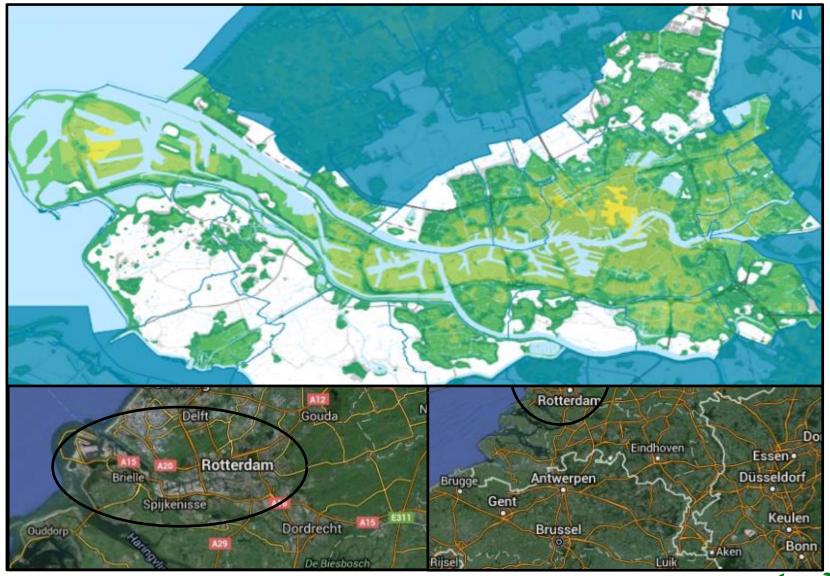
LIFE @Urban Roofs Rotterdan





Ukraine Green Recovery Conference Vilnius, Lithuania

Rotterdam, the Netherlands





History









Urban Challenges













Gemeente Rotterdam

Roofs provide space







Rooftop functions



Green roofs provide space for nature.



Blue roofs retain rain water.



Yellow roofs produce renewable energy.



Red roofs offer social functions.



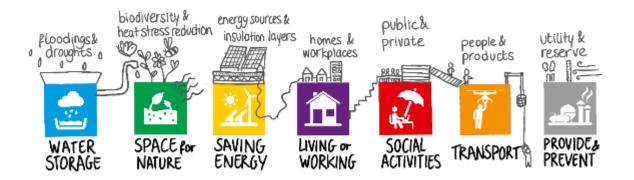
Orange roofs are used for mobility.



Purple roofs are used for densification.

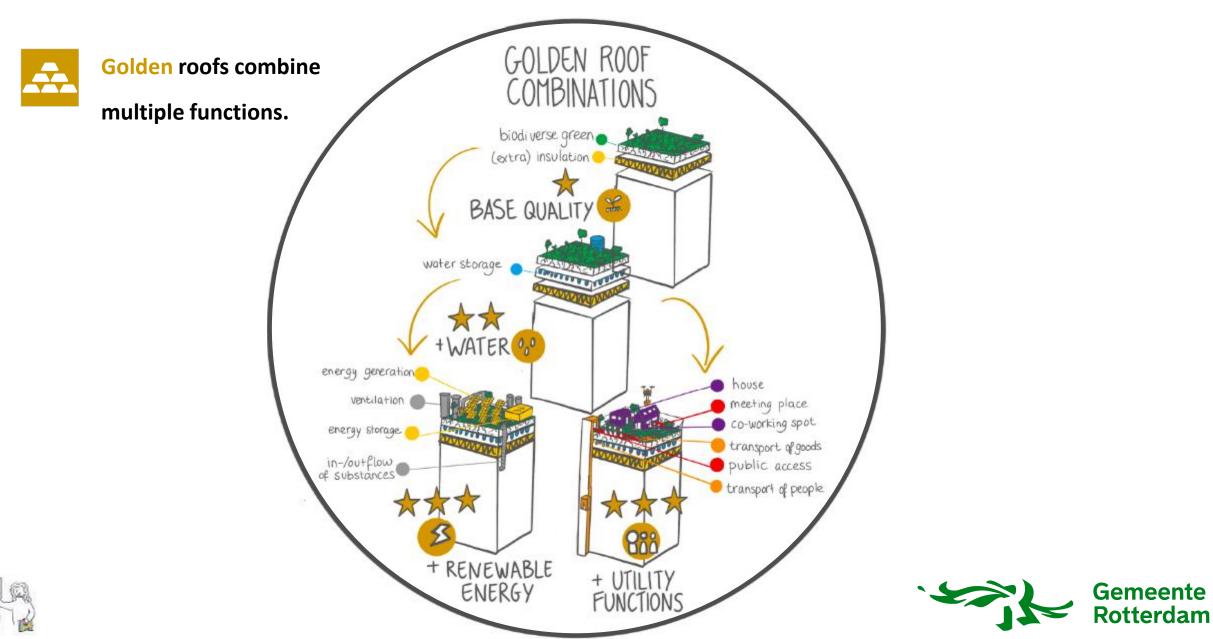


Grey roofs offer utilities en reserve capacity.





Golden combinations



MAAR PLATEN

Imagine...

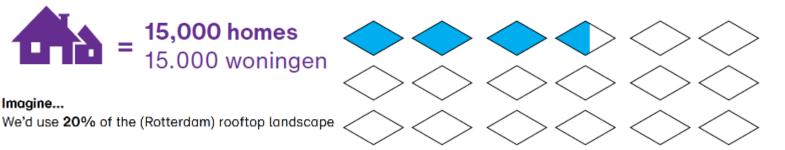
We'd use 10% of the (Rotterdam) rooftop landscape for housing ...

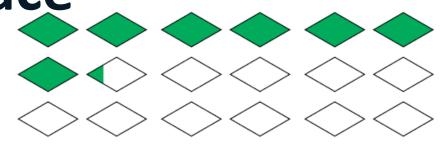
Imagine...

We'd use 40% of the (Rotterdam) rooftop landscape for greenery...

The battle for space

Imagine... We'd use **20%** of the (Rotterdam) rooftop landscape for water storage...

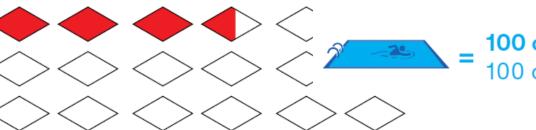






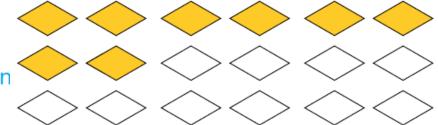
Imagine...

We'd use 45% of the (Rotterdam) rooftop landscape for solar power generation...



100 olympic pools 100 olympische zwembaden

= 1 km 2





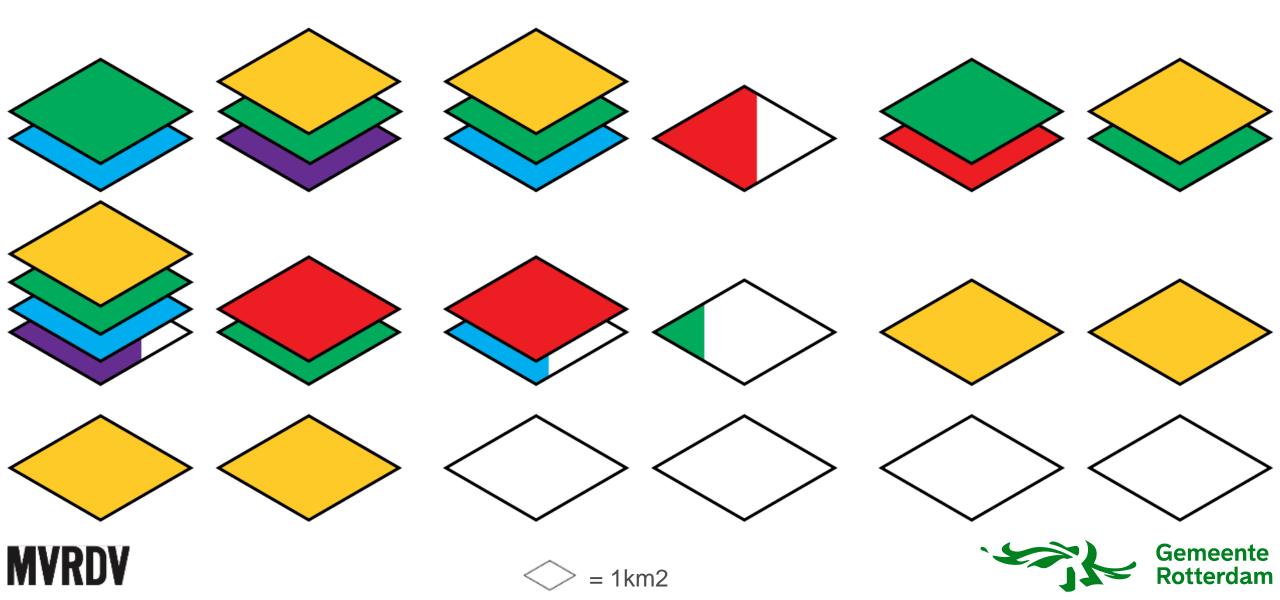




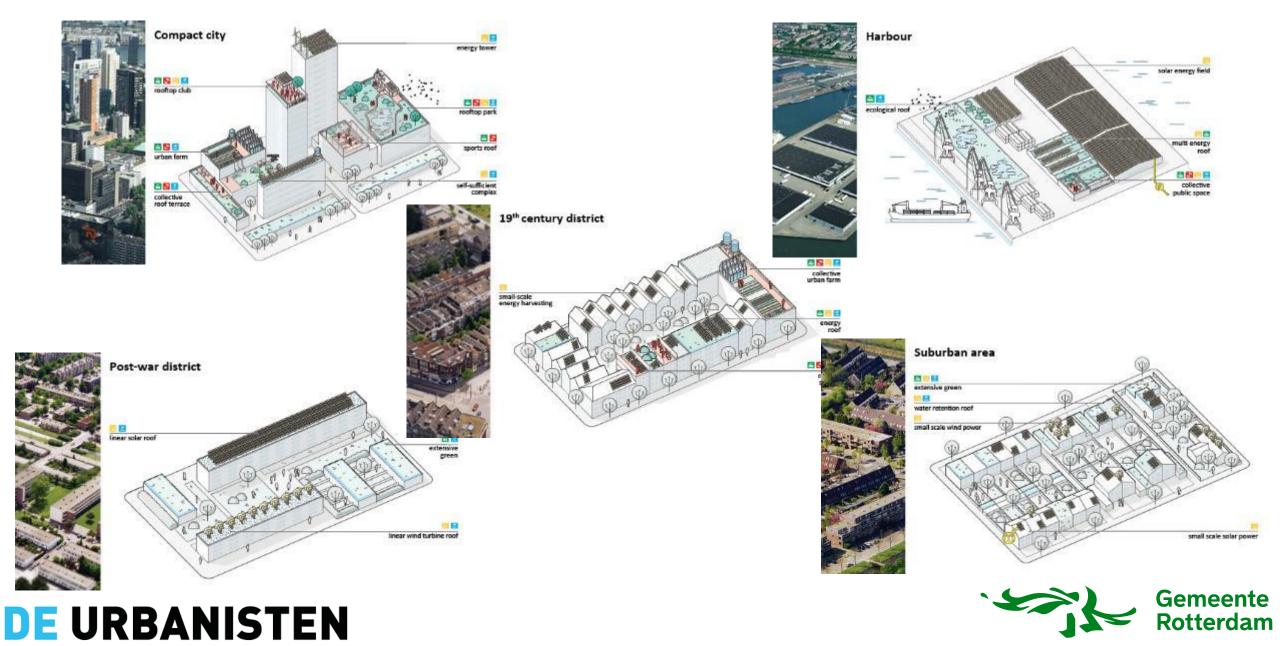
Integral approach

Imagine...

We'd combine all this potential to one multifunctional roofscape...



Area-oriented



Functional benefits



Adding (private) gardens [often in short supply in the city centre]

n Adding facilities for the block

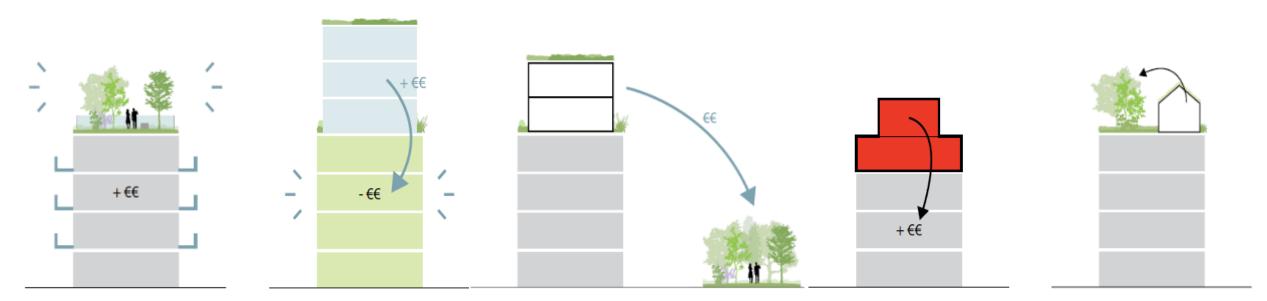
Adding another function for the Adding a new type of housing Expurpose of a 16-hour neighbourhood for a more inclusive neighbourhood in

Expanding homes to keep people in the neighbourhood (reducing the need for people to move)





Financial benefits



Increasing value of building below

Contribution new construction for Generating income for the Owners Association and making making the street level more green the rooftop more sustainable

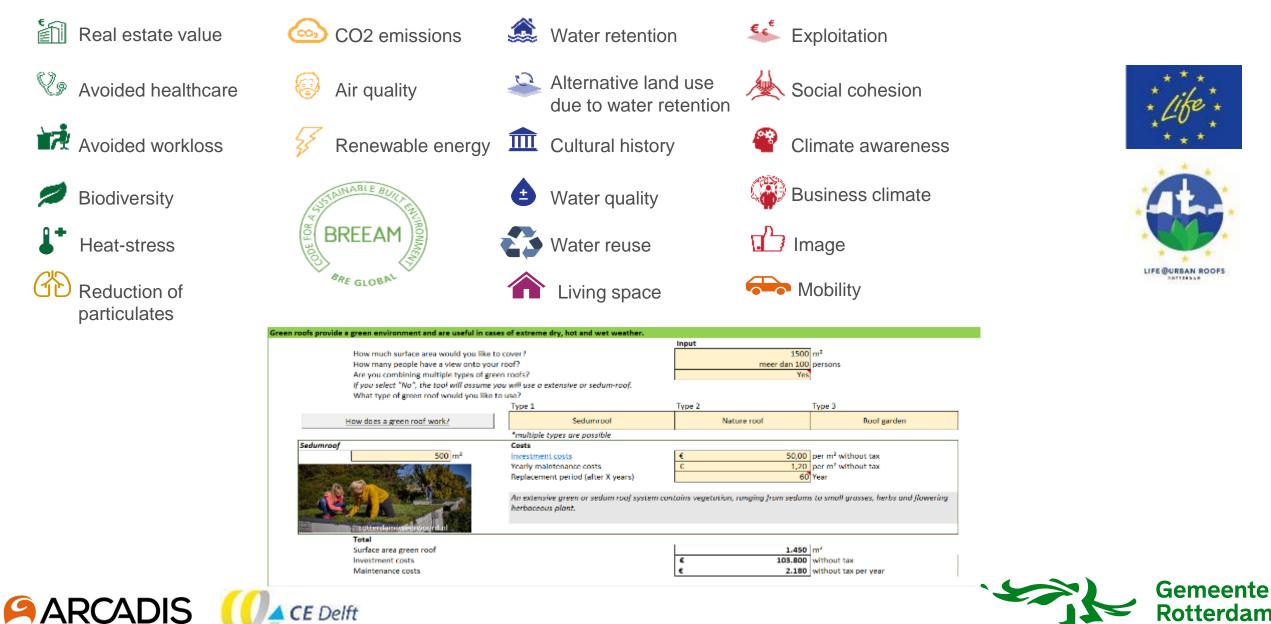
Contribution new construction to make Contribution for community building below more sustainable

functions on the rooftop

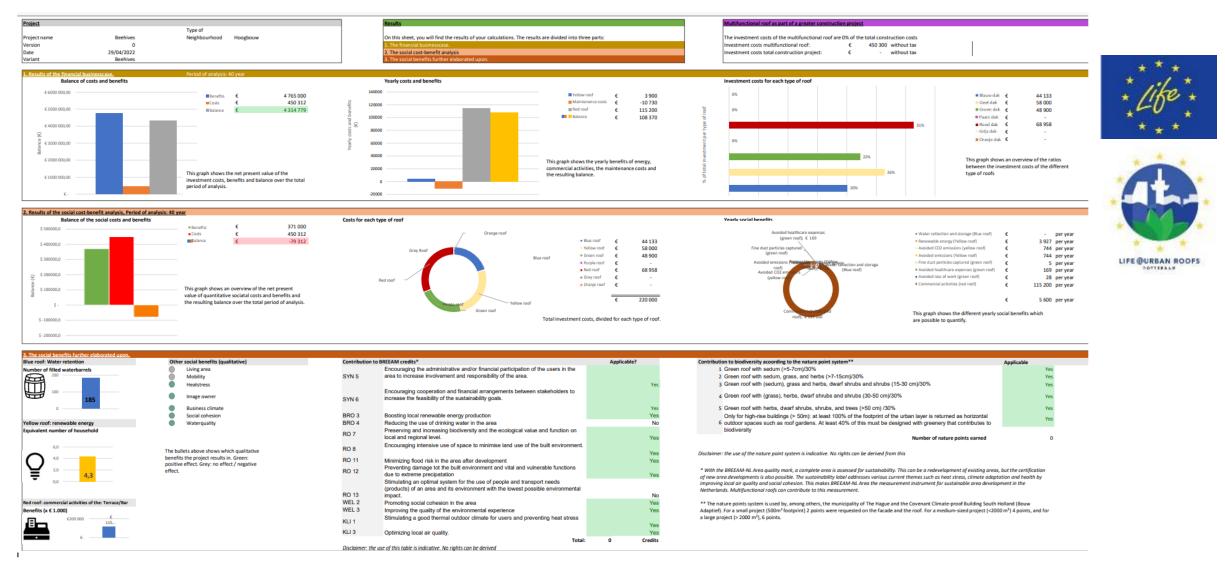




Value based approach



Value based approach



ARCADIS (CE Delft





LIFE Project Peperklip









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LIFE Project De Heuvel









LIFE Project De Doelen









LIFE Project Experimental roof

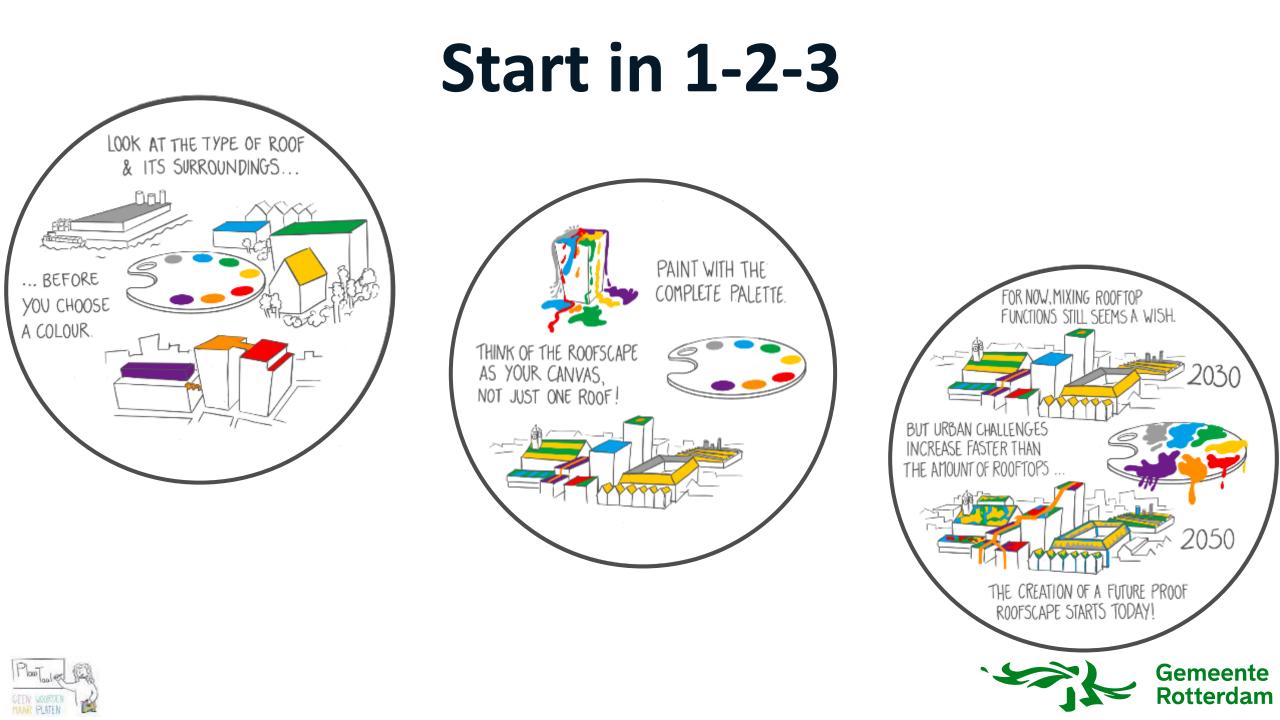








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Thanks for your attention.





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