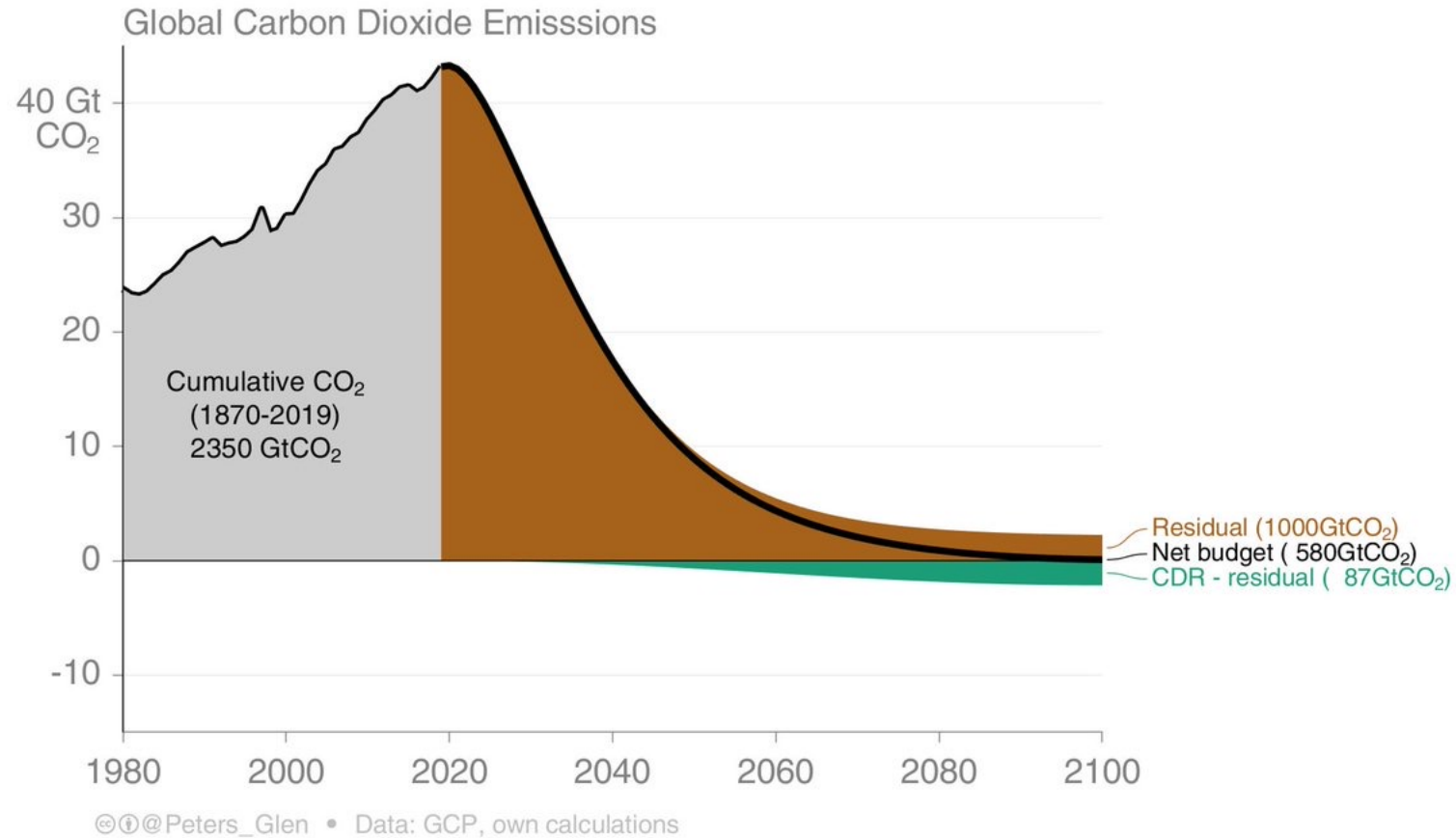


# **Berättelser om omställning: Att använda framtiden**

Ludwig Bengtsson Sonesson & Johannes Stripple  
Lunds Universitet/Climaginaries



# Sitter vi fast i en fossil värld?



# Klimatfrågans förändring

...från att reducera utsläpp  
1990-2005



...till en genomgripande  
samhällsomvandling



# Hur sker omställning?

**Tre** parallela strategier:

1. Förändra samhällsstrukturen
2. Tweaka systemet
3. Möjliggör nya framtider

Scoones, I., Stirling, A., Abrol, D., Atela, J., Charli-Joseph, L., Eakin, H., Ely, A., Olsson, P., Pereira, L., Priya, R., van Zwanenberg, P., & Yang, L. (2020). Transformations to sustainability: combining structural, systemic and enabling approaches. *Current Opinion in Environmental Sustainability*, 42, 65–75. <https://doi.org/10.1016/j.cosust.2019.12.004>



# Sitter vi fast i en fossil värld?

Hur hamnade vi här?

Sitter vi fast tekniskt?  
Ekonomiskt? Politiskt?  
Kulturellt? Mentalt?

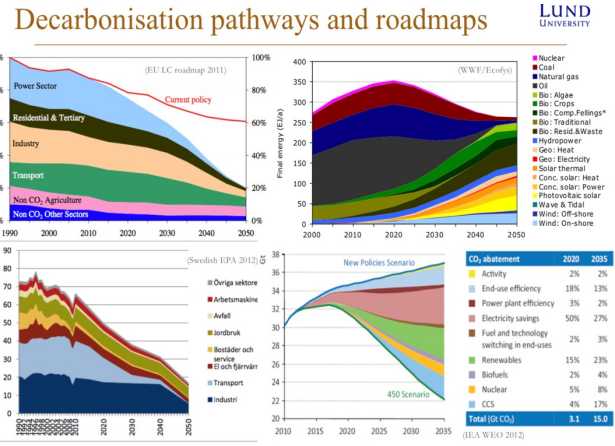
Hur kan vi ta oss ut?



# Petrokultur?



# Post-fossila världar?



• Vad får oss att vilja upptäcka dem?



## Visions, roadmaps, strategies



# Vår syn på framtiden





**Hur vi förställer oss framtiden  
påverkar de val vi gör idag.**



**Vi kan veta vissa saker om framtiden  
men det mesta växer fram när den  
närmar sig nuet**



**Framtiden är öppen,  
men framställs ofta som stängd**



# Att använda framtiden

För att **förutspå** framtiden.

För att **planera** för olika möjliga framtider.

För att **skapa** nya, alternativa framtider som mobiliserar.

För att **kritisera** hur dominant framtider framställs.



Framtider behöver *konkretiseras* i förändrade omständigheter, *placeras* på platser och i livsmiljöer som kommer att omformas, och samtalen om framtiden behöver *demokratiseras* så att olika perspektiv får komma till tals.



Vi använder **fantasi, kunskap, berättelser**  
**och spekulativ design** för att syn på vår  
petrokultur och för att göra en alternativ  
framtid greppbar



# Carbon Ruins

Ett museum över fossileran









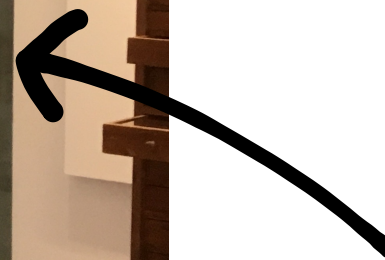


## Museets resa:

Växjö, Västerås, Lund, Malmö,  
Stockholm, Borlänge, Glasgow.

Tusentals besökare, över hundra  
guidningar.

Omskriven i nationell och  
internationell media.



Här på besök hos Lunds Stift och  
Svenska kyrkans hållbarhetsgrupp.





# Museet finns som resekoffert

—

**Hör av er om ni  
vill att den ska  
komma till er!**



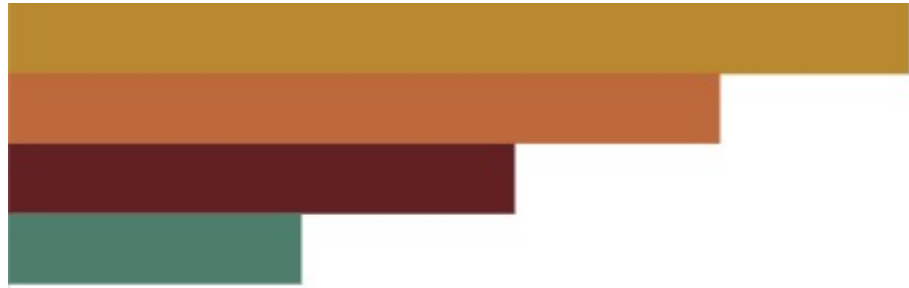
# Även nu som skolmaterial: Bortom Fossilsamhället



# Rough Planet Guide to Notterdam (2045)

En reseguide till en fossilfri stad

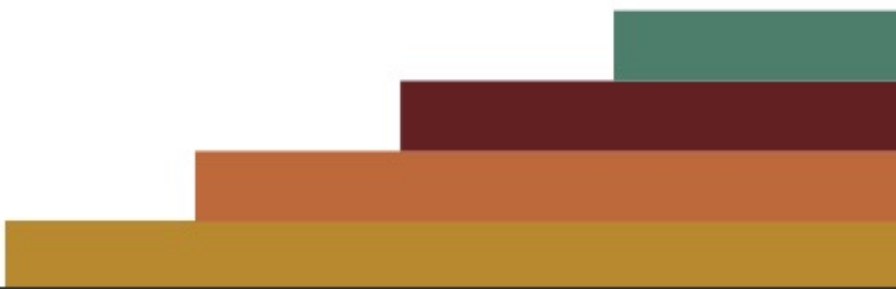




rough planet

# Notterdam

2045



# Culture



## Sculpture

### Monument to the Death of an Idea [9, 10, 11]

If you know one thing about Rotterdam's public arts offer, it's probably that **the Monument** is here—and while you can see it looming on the skyline from all over the city (and further afield!), it really deserves to be seen up close. Now nearing a kilometer in height, **the Monument to the Death of an Idea** is technically still an ongoing project: while the rate of its growth

has slowed considerably, pilgrims still arrive with donations of non-recyclable plastics to be added to the conglomerate by aerial drones. If you want to bring some of your own, the visitor's center at the foot of the tower is open from 7am to 9am for donations—but be sure to declare those old tchotchkes at customs!

## History

### Rubber ducks and refugees [Q2, 9] [D2.3, 3.7, 4.3] [PI2] [L1]

**The Monument to the Death of an Idea** is usually described as a memorial to the Fossil Age and its profligate use of plastics; this is certainly what it has come to mean to most Europeans. But its origins are somewhat more contentious, and entangled with Rotterdam's long history of political art-activism and trade-union organisation.

The late Twenties saw a surge in the already significant numbers of climate refugees crossing the Mediterranean to escape drought, crop failures and political turmoil in North Africa and beyond. Holding facilities in locations such as Sicily and Lampedusa, now broadly considered by historians and sociologists to have qualified as concentration camps, became saturated, riven by disease and famine. Neo-nationalist blocs within the EU agitated for a blockade of the Mediterranean aimed at "detering" refugees and migrants, the implementation of which resulted in numerous sinkings and thousands of deaths.

One response to these events was **the formation of a powerful solidarity group within the Rotterdam petrochemicals cluster**. Already on strike due to significant job losses, as the introduction of bioplastics and 3D printing resulted in consolidation by large firms and the closure of smaller combiners and compounders, workers seized control of multiple 3D printing operations on the morning of April 14th 2031 and, over the following

five days, printed a flotilla of boats from petro-plastic and bioplastic.

By April 27th, outfitted and crewed by nearly a thousand Rotterdam citizens, these "rubber ducks", as they became known, had set off on the "long route home" around the French, Spanish and Portuguese coasts, before breaking the Frontex blockade at Gibraltar and returning over the following months with just under 14,000 refugees aboard.

The founding core of what has become the Monument was **a mass of rubber ducks cast from the materials of the decommissioned boats of the freedom flotilla**. Its explicit pro-refugee aesthetics and message attracted the ire (and vandalism) of far-right factions; in response, activists and artists from across the continent began bringing additional objects made from single-use plastics and adding them to the monument—a process that continues to this day, albeit much more slowly. If you have the time, consider scavenging for remaining plastic objects before you leave home. Nothing says "I've been to Rotterdam" than adding to the monument.

Many activists argue that the Monument has become depoliticised with time, but regular demonstrations by groups from all across the political spectrum suggest that, while its meaning may be more mundane for many, it is still a vital symbol of not just the Fossil Age itself, but the persistent socioeconomic aftershocks thereof.



# Restaurants

## Food

### Eating out D3.6

*Staff writers pick their favourite food spots*

You could fill an entire book with **the best restaurants in the Docklands**—and even then you'd need to update it on an almost monthly basis. Your best bet is to just go and see what grabs you from whatever's currently open... but we've pulled out a **small selection of durable classics that are well worth your time and tastebuds**, assuming you're lucky enough to find a table!

#### **Burgers, beer and bioreactors: Het Slachthuis**

Following the doubly-retro aesthetic of craft-beer joints from the Twenties, everything at **Het Slachthuis (The Slaughterhouse)** is produced and sold on site. "Meat" and "milk" are brewed in large tanks alongside craft beers, of which their famous milkbier—brewed using a remodified version of the yeast that is used to produce milk—is a city-wide favourite.

**The Slaughterhouse** is one of number of brewhouses affiliated to the MilkyBarKid Group—a Rotterdam community enterprise that took its name during a lengthy legal dispute with Cadbury/Mondelez, who had exclusive IP rights to a milk-producing yeast strain which they originally used to produce high-protein milkshakes. This case, and others like it were, eventually quashed with the passing of the 2038 EU Open Rights Directive (the so-called

"copyleft" law) that brought large swathes of EU Intellectual Property into the public domain and resulted in proliferating small-scale bioreactor set-ups. *Proost!*

#### **From invertebrate to inverte-GREAT: "mystery meat" in Asiatown** D3.3/6.4

Notterdam's **Asiatown**, an early element of the reclamation of the disused docklands, is a popular spot for buying cheap trinkets made from recycled materials and the somewhat more controversial traditional Chinese medicine products—but also for its "mystery meats".

As agricultural reconfigurations propagated across the continent, animal meat became expensive and *declassé*. With a long culinary tradition of eating insects, spiders and molluscs, East Asian restaurants and food outlets were quick to adopt to the new culinary landscape, offering a wide variety of invertebrate meat, cooked in ways that make it almost impossible to tell what you are eating.

Cultured meat hit a viable price-point towards the end of the 2030s, and demand for invertebrate meat waned accordingly. But **Asiatown's** "mystery meat" delicacies, made of jellyfish, earthworms and crickets, remained popular—not just among the East Asian diaspora, but also gourmants and sceptics of cultured meat. On

Fridays the **Mystery Meat Market** is open until late, and you will find vendors offering everything from black meat soup (黑肉汤) to deep sea noodles (深海面条). Do you dare to try them?

#### **"Nepvlees is verser": lab-meat dining**

D3.3/6.4

You can get lab-grown meat anywhere in Rotterdam—sometimes without even realising that's what you're getting, such as at the *kapsalon* vans dotted around **Downtown**. But **the Docklands** is home to the best cultured meats, grown by producers who view it less as a substitute and more as an artistic medium.

Down by the waterside on the western edges, you will mainly find seafood dishes prepared by the local *zeevruchtenlab* ("sea-food lab"). Many local pescatarians are fiercely devoted the restaurant **Smaak-Wijzerplaat**, where you can select from 20 different flavours with which to infuse your lab-grown salmon steak. In the eastern reaches, meanwhile, you will find some decent red meat restaurants. However, only some of those have their own labs—so if it's freshness you're after, keep an eye out for the sign *Eigen Laboratorium* ("in-house lab").

#### **Straight to the point: Re-Skewer**

An idea as simple as it is righteous: **Re-Skewer** is a barbecue restaurant which uses only food rescued from supermarkets and restaurants across the city. You can bring your own veggies (and beer!) if you like, or take a punt on the dish-of-the-day and enjoy the inventive and surprising combinations cooked by the rescue chefs.

*"You can get lab-grown meat anywhere in Rotterdam—sometimes without even realising that's what you're getting"*





# Activities

## Adventure

### Retail therapy?

*Things to see and do downtown*

There's plenty to see and do Downtown—see below!—but **don't discount the pleasure to be had from just hanging out and soaking up the street-scene.**

Nowadays Downtown is home to a large number of older people with a variety of care needs. While you enjoy a coffee and a slice of *appeltaart* in one of the many cafes, you will see many of them out and about, contributing to the vibe of the area. Their independence is made possible by a strong social care system and some surprisingly simple planning policies, as well as a variety of novel technologies, many of which were pioneered in the tech labs tucked away in old malls such as the **NK Center** (page 24).

The proximity of a **world class hospital, the conversion of several former malls to senior living solutions, and the co-location of start-up firms is part of the reason for the revival of this once-grim area.** The weed peddlers are still around as a reminder of the bad old days, but they've no need to play it tough any more, thanks to the EU's recategorisation of cannabis back in 2027. (We do suggest that you switch your mobile devices to their highest security settings, however, as this—like other busy parts of the city—is an identity-jacking hotspot.)



## Accommodation

### FaFa Hotel (€€) D2,3 P7 L,17

Ever dreamed of living out a teen movie from the 2010s, sitting around plastic tables with your friends, eating cheeseburgers and hot dogs and slurping giant milkshakes from plastic straws? A stay at the **FaFa Hotel** will totes feel like the real deal—fosh!

Located a stone's throw from the central train station, this iconic hotel is inside one of Rotterdam's many old shopping malls. In an ironic homage to the Fast Fashion era, guests can stay in converted shop rooms, decorated with a great collection of original ads and window decorations.

Meals are served food-court style, with delicious modern interpretations of traditional fast food staples.

The experience would not be complete without some opportunities for shopping: **find your next favourite at one of the city's biggest indoor second-hand markets, rummage through the hotel's seven well-curated vintage stores, or change things up at your favourite clothing rental—all the major chains are represented, as well as the hottest (and highest-priced) for-the-day fashions from eastern and southern Asian couture houses.**

## Malls

### Stuffed animals: the former malls of Rotterdam Q11,12 L,16,18

It can be hard to believe the amount of urban space that was given over to the sale of low-quality goods in the early years of the century—even more so when you factor in the sky-high rents and meagre wages experienced by the employees of those businesses. Many of those former temples to consumption have been torn down, but a number of Rotterdam's most notable malls have instead been repurposed—both inside and out!

### Mowga Tower (€)

Climbing this old colossus will take **twenty minutes of calf-stretching stairwells**, but it's well worth the effort—though elevators are available for the

differently able. The green roof offers a stunning view across the entire region, as well as a rain-harvesting landscape of native species that help to collect and purify rainwater for use in the levels below. (Note that on days **when the temperature is over 35C, the roof is closed to visitors for their own safety.**)

After soaking your eyes with far horizons, head downstairs to soak your body in the pools and saunas of the tropical house. Powered by a seasonal combination of solar, thermal or wave energy, this part of the Mowga is open all year round: transport your senses (if not your body) to an exotic getaway destination, with different rooms



# Getting here, getting around

## Advice

### Rush hour(s)

Notterdam is big, densely populated, and very busy; as such, you'd be advised to **avoid peak traffic periods**. Given that there are so many of them, that can be a challenge for visitors, but you'll soon get a feel for it—and the app that connects to your TAC can advise you. Some local particularities to be aware of:

🚲 If you're out in the Docklands, **don't try to compete with stressed commuters** looking for a charging station near their workplace between 7 and 8am. They'll win.

🚲 When roaming around Downtown, those without what our British friends call "sharp elbows" should **avoid the bike and scooter rush**, which tends to tail off around 9 am.

🚲 If you're visiting the commercial district, **avoid siesta time around noon**, as the Notterdammers struggle to get out of the city centre. The addition of green spaces has helped somewhat, but when the heat-island effect kicks in, it gets too hot to move. **Find a cafe, get a cold drink, and sit it out under an awning.**

🚲 In pretty much every neighbourhood, food delivery traffic remains steady between 6 and 8pm. This shouldn't cause you too much trouble if you **stay out of the red commuter lanes**, but nonetheless, look out for couriers rushing the last mile on lesser streets. Those commissions don't earn themselves!

### Transport Etiquette

This should go without saying, but the steady stream of tourists through Notterdam's A&E wards suggests it doesn't, so: **Don't walk in the bike lanes! Seriously, don't.** They won't stop! And if your blood tests over the limit for alcohol or THC at the hospital, you'll pay a fine to the city before your cast has fully set.

🚲 If you don't cycle much, or are unfamiliar with the cycling culture of the Netherlands, **stay in the green bike lanes**. The red lanes, which take up the majority of central street space, are for fast riders only. Notterdammers tend to get annoyed with tourists dawdling on the commuting network.

🚲 **Don't leave e-scooters or rental bikes outside designated drop-off/pick-up areas.** The fines are hefty!

🚲 **Don't make a mess in ride share pods.** Your dad doesn't work here! Fines of up to €1000 apply if you leave rubbish in the pod.

🚲 **Use the underground bike garages** for safe and efficient storage when you're not using your bike. It's a free service, paid for by your visitor tax, so make use of it.

🚲 **Don't bogart the charging stations!** They're for everyone to share, and no one likes a "100 percentur".

## Advice

### So... you came by car? <sup>1.22</sup>

Far be it from us to suggest that traveling to Notterdam in a privately-owned vehicle is a foolish move—we'd be wasting our time, not least because the Notterdammers will do it far more effectively than we can, from the moment you arrive to the moment you leave. **For those of you sufficiently wealthy (or crazy) to try it, here are some vital tips for survival.** It's only fair to warn you that nothing is going to protect you from the disdain of the locals... but we figure you're probably used to that back home.

Our advice is to use one of Notterdam's swanky "car escort services": not only is it the only sane way to secure parking spaces, but they also provide top-notch option for getting around the car-free urban core while your beautiful machine is in furlough. We recommend **Car(e)-Free** or **Libre**, both known for their prompt responses and various add-on services (such as taking care of laundry, hotel check-in etc.) They're not cheap—but if you've got a car, that's probably not a thing that worries you. But be sure to book in advance: **driving up to the city limits unannounced will get you a crash-course in Dutch bureaucracy you'll never forget.**

## Travel

### How do I go beyond the city limits? <sup>1.22</sup>

Most Notterdammers would probably reply to this question with another question: why would you want to? But sure, there's things to see beyond the predominantly urban network of rail stations—and if you're not taking a mode of travel that's part of the adventure (such as the popular river tours; see page 16), how are you going to get there?

The simple and affordable answer would be to **take a bus; again, your TAC app can get you almost anywhere in the country you might want to go**, and even beyond (though international trips within Europe are faster by train, and not much more expensive). The braver and more

adventurous might choose to **upgrade your rental bike to an e-assist model**, and head out on the bike-highways—it's a beautiful country, after all, and it's not like there are many hills to de-juice the battery (or your legs, if you're hardcore).

But if you've absolutely got to go somewhere really remote, and you can't (or won't) take the slower communal options, then hiring an autopod is probably your only remaining option. As noted above, this won't be cheap, even if you manage to pack it out to full occupancy—but it's still cheaper than taking your own, because the tolls for unlicensed vehicles are waaaaay huge. Don't say we didn't warn you!





# Workshop på TriVector i Lund



# Minnen från omställningsåren

En framtidslydsvandring i Malmö

FORMAS 



Visa film här. Länk i anteckningarna.



Hur ska vi egentligen klara oss ur klimatkrisen?

I *Minnen från omställningsåren* får du höra berättelsen om hur det skulle kunna gå till.

Till din hjälp har du Selma, Holmabon som samlat minnen från omställningsåren.

Berättelsen består av två akter och utspelar sig i Hyllie och Holma i Malmö och spelas genom appen Climaginarie.



**FARVÄL**



**FALSTERBO**

**Premiär: våren 2022**



# I korthet

1. Framtiden är öppen. Vi föreställer oss framtiden i alla beslut. Vilken framtid vi föreställer oss påverkar vilka beslut som kan tas.
2. Omställning kräver fantasi.
3. Genom att konkretisera, placera och demokratisera klimatframtider låter vi medborgare återvända till nuet med insikter om framtiden och drivkraften att förändra den.
4. Kreativa metoder engagerar och kan skapa en djupare förståelse för klimatframtider.





# Kontakta oss gärna

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