

SURAT TUGAS

Nomor: 70-R/UNTAR/Pengabdian/VIII/2022

Rektor Universitas Tarumanagara, dengan ini menugaskan kepada saudara:

OLGA NAULI KOMALA, S.T., M.Ars., Dr.

Untuk melaksanakan kegiatan pengabdian kepada masyarakat dengan data sebagai berikut:

Judul	:	Narasumber dalam Seri Seminar Online #19, Urban Design for Sustainable Development, Prodi Magister Arsitektur Universitas Tarumanagara, Urban Foodscape + Sustainable Urban Design
Mitra	:	Prodi Magister Arsitektur Universitas Tarumanagara
Periode	:	9 Maret 2022
URL Repository	:	https://www.youtube.com/watch?v=H_h9BiPx4OU&t=7338s

Demikian Surat Tugas ini dibuat, untuk dilaksanakan dengan sebaik-baiknya dan melaporkan hasil penugasan tersebut kepada Rektor Universitas Tarumanagara

11 Agustus 2022

Rektor



Prof. Dr. Ir. AGUSTINUS PURNA IRAWAN

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1 Maret 2022

Nomor : 053-S2TA/1266/FT-UNTAR/III/2022
Lampiran : 1 (satu) lembar
Perihal : Kesiadaan sebagai Narasumber Seri Seminar Online #19

Kepada Yth.
Ibu Dr. Olga Nauli Komala, S.T., M. Ars
di tempat

Bersama surat ini kami sampaikan kepada Ibu, sehubungan dengan akan diadakannya Kegiatan Seri Seminar Online putaran ke-3, Prodi Magister Arsitektur Universitas Tarumanagara, untuk itu kami mohon kesediaanya untuk dapat menjadi Narasumber pada acara tersebut, yang akan dilaksanakan pada:

Hari/Tanggal : Rabu/9 Maret 2022
Pukul : 15.30 s/d 17.30 WIB
Topik : Urban Design for Sustainable Development

Demikian surat ini kami sampaikan, atas kesediaan dan kerjasamanya kami ucapkan terima kasih.

Kaprodi Magister Arsitektur



Prof. Dr. Dr. Ir. Naniek Widayati Priyomarsono, M.T

Tembusan:

1. Arsip

PROGRAM STUDI :

- Sarjana Arsitektur, Magister Arsitektur, Sarjana Perencanaan Wilayah dan Kota, Magister Perencanaan Wilayah dan Kota
- Sarjana Teknik Sipil, Magister Teknik Sipil, Doktor Teknik Sipil
- Sarjana Teknik Mesin, Sarjana Teknik Industri, Sarjana Teknik Elektro

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Lampiran:

Jadwal Seri Seminar Online Putaran ke-3 (SSO #16-22)

NO	Tanggal	SUB-TOPIK (JUDUL SERI)	JUDUL PAPARAN	NARASUMBER	Jabatan/Instansi	MODERATOR
#16	26 Januari	Green Architecture in facing the Climate Change	Green Building Potentials in Indonesia	Ir. Jatmika Adi Suryabrata, M.Sc. Ph.D	Dosen Arsitektur UGM, Anggota TABG DKI Jakarta	Dr. (Cand.) Dian Siddya Budiman, S.T., M.T.
			Climate is changing, so must the Architect	Suwardana Winata, S.T., M.Arch., IAI	Dosen Arsitektur dan Perencanaan UNTAR, Ketua Badan Pendidikan Pengurus IAI Nasional	
#17	9 Februari	Net Zero Energy Building	Net Zero Energy Building menuju Low Carbon Society dalam Arsitektur	Dr. Eng. M. Donny Koerniswan, S.T., M.T.	Dosen SAPPK ITB	Ir. Timmy Setiawan, M.Ars, IAI
			Desain Bangunan Net Zero Energy sebagai solusi yang penting untuk mengurangi dampak perubahan iklim	Budijanto Chandra S.T., M. Ars, G.P, IABHI	Dosen Arsitektur dan Perencanaan UNTAR, Greenship Professional (GP), EDGE Expert & Auditor, LEED AP BD+C, WELL AP	
#18	23 Februari	Heritage, Identity & Tourism: Link and Match the Old and New City	Kota Baku dan Kawasan Turis di Kota Tua Ichari Shaher, Baku - Azerbaijan	Prof. Dr. Husnan Bey Fananie, M.A.	Staf Ahli BAPPENAS, Mantan Dubes RI untuk Azerbaijan 2016-2020	Dr. Eng. Titin Fatimah, S.T., M.Eng.
			Kawasan Bersejarah di Tengah Kota (Dampak dan Kontribusinya)	Prof. Dr. Dr. Ir. Naniek Widyati Priyomarsono, M.T	Dosen Arsitektur dan Perencanaan UNTAR	
#19	9 Maret	Urban Design for Sustainable Development	Rebranding Urban Place	Prof. Dr. Purnama Salura	Dosen Arsitektur UNPAR	Suryono Herlambang, M.Sc
			Urban Foodscape & Sustainable Urban Design	Dr. Olga Nauli Komala, S.T., M.Ars	Dosen Arsitektur dan Perencanaan UNTAR	
#20	23 Maret	Sustainable Urban Renewal	Urban Renewal through Place-making: case study Johor Baru, Malaysia	Faezah Ayub, B.Eng., M.Eng. Urban and Environmental	Former Programme Manager, at Think City Malaysia, Special Officer to Johor Chief Minister	Dr. Ir. Fermanto Lianto, M.T.
			Sustainable Urban Renewal: Development Trend & Dilemma	Dr. Denny Husin, S.T., M.A.H&U	Dosen Arsitektur dan Perencanaan UNTAR	
#21	6 April	Tradisional dan Modern dalam Menjawab Tantangan Perubahan Iklim	Nyaman: Bernaung atau/dan Berlindung?	Prof. Dr. Josef Prijotomo, M.Arch	Dosen Arsitektur UNPAR	Ir. Budi A Sukada, Grand.Hons.Dipl (AA)
			Hunian dan Lingkungan: Adaptasi Berbasis Komunitas terhadap Perubahan Iklim	Dr. Ir. Samsu Hendra Siwi, M.Hum.	Dosen Arsitektur dan Perencanaan UNTAR	
#22	20 April	Dampak Perubahan Iklim pada Interior bangunan, Arsitektur dan Perkotaan	Strategi Desain Tanggap Bencana	Prof. Yandi Andri Yatmo, IAI	Departemen Arsitektur UI	Ir. Rudy Surya, M.M., M.Ars.
			Keselarasan Perancangan Arsitektur dengan Alam	Dr. Ir. Rudy Trisno, M.T., IAI, HDII	Dosen Arsitektur dan Perencanaan UNTAR	



MAGISTER ARSITEKTUR UNTAR

SERI SEMINAR ONLINE #19

Supported by:



IKATAN
ARSITEK
INDONESIA
JAKARTA

Sponsored by:



Urban Design for Sustainable Development

Narasumber:



Rebranding Urban Place
Prof. Dr. Purnama Salura
(Dosen Arsitektur UNPAR)

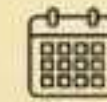


Urban Foodscape & Sustainable Urban Design
Dr. Olga Nauli Komala, S.T., M.Ars
(Dosen Arsitektur dan Perencanaan UNTAR)

Moderator:



Suryono Herlambang, M.Sc
(Dosen Perencanaan Wilayah dan Kota UNTAR)



Rabu, 9 Maret 2022



15.30 - 17.30 WIB



zoom



YouTube

Link akan dikirimkan menjelang pelaksanaan



Registrasi Umum:

bit.ly/SSO_S2Ars-UNTAR

Registrasi IAI:

bit.ly/SSO_UNTAR_SERIE19

Biaya pendaftaran (termasuk e-certificate):

Anggota profesional IAI: Rp 50.000,- (KUM IAI: 2)

Non anggota/mahasiswa: FREE

SERTIFIKAT

DIBERIKAN KEPADA :

Dr. Olga Nauli Komala, S.T., M.Ars

Sebagai : NARASUMBER

Seri Seminar Online #19- Magister Arsitektur Jurusan Arsitektur dan Perencanaan
Fakultas Teknik Universitas Tarumanagara, dengan topik :

“Urban Design for Sustainable Development”

Jakarta, 9 Maret 2022



IKATAN
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INDONESIA
JAKARTA

Doti Windajani, IAI, AA.

Ketua Ikatan Arsitek Indonesia Jakarta



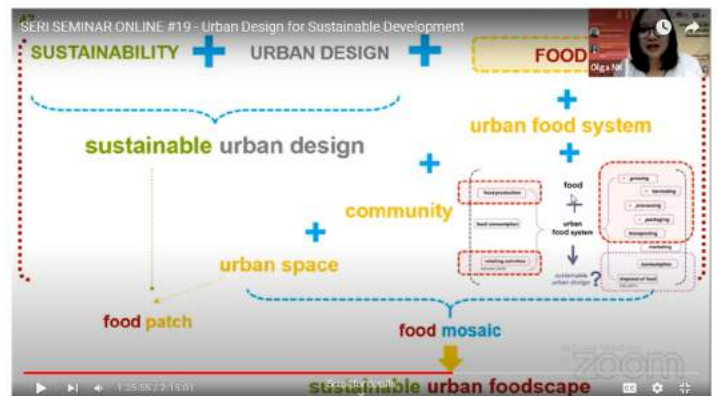
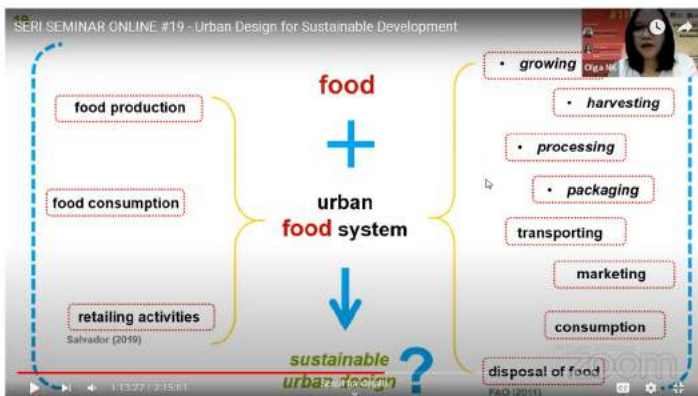
UNIVERSITAS TARUMANAGARA
FAKULTAS TEKNIK
PROGRAM STUDI S2 ARSITEKTUR
KETUA

Prof. Dr. Dr. Ir. Naniek Widayati Priyomarsono, M.T.

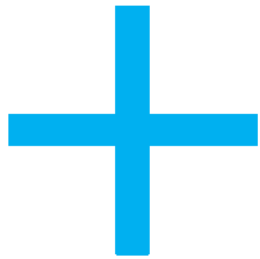
Ketua Program Studi Magister Arsitektur
Universitas Tarumanagara

Dokumentasi Seri Seminar Online #19 - 9 Maret 2022

Sumber: https://www.youtube.com/watch?v=H_h9BiPx4OU&t=7338s



URBAN FOODSCAPE



SUSTAINABLE URBAN DESIGN



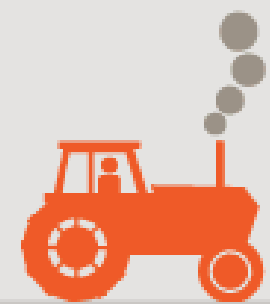
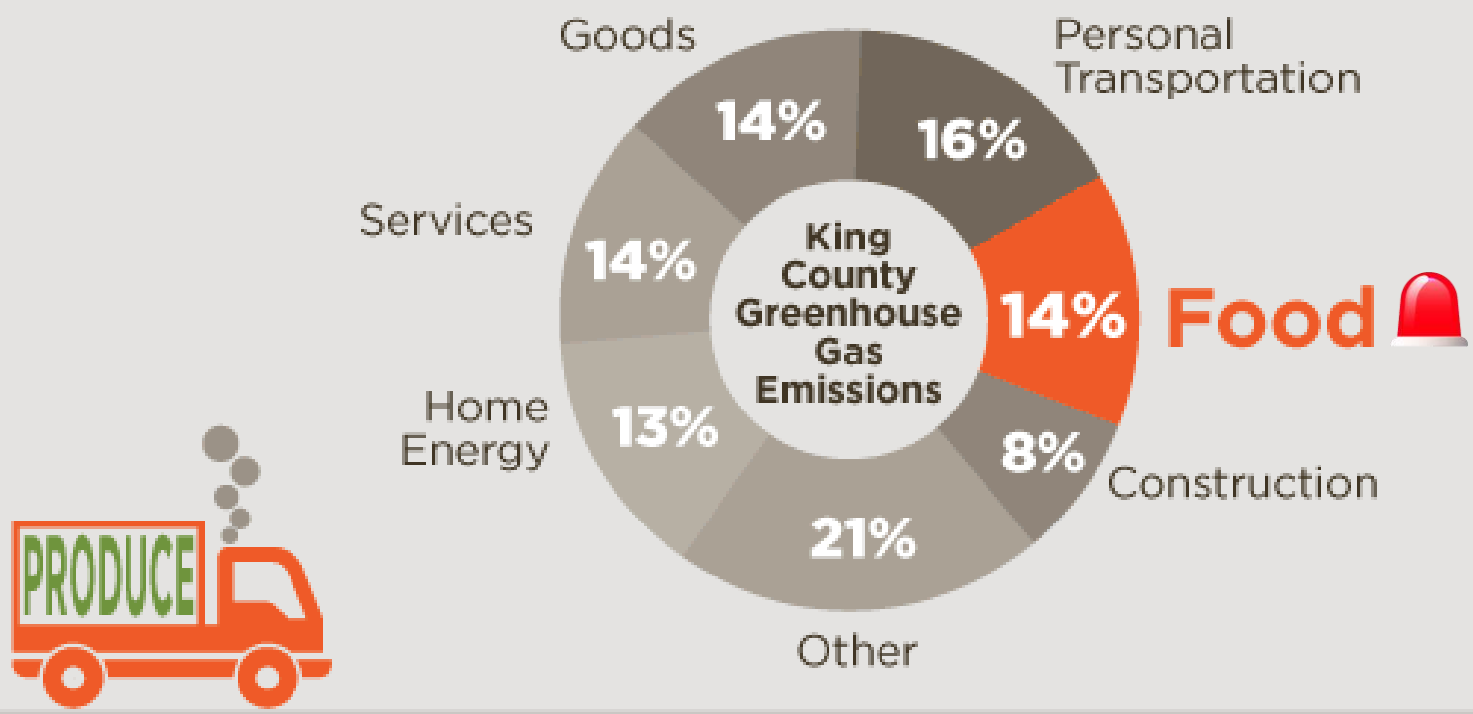
food

climate



FOOD IMPACTS CLIMATE CHANGE

The carbon emissions from **producing, transporting, and consuming food** are second only to the emissions from transportation.



The Effect Food Production has on Climate Change

NBC 6 South Florida

(https://www.youtube.com/watch?v=CQ0K7twB_2c)

The Diet That Helps Fight Climate Change

VOX

(<https://www.youtube.com/watch?v=nUnJQWO4YJY>)

Food Waste, Global Hunger & You

World Food Programme

(https://www.youtube.com/watch?v=TVP3j7_W7og)

Food Waste causes Climate Change. Here's How We Stop It.

Our Changing Climate

(https://www.youtube.com/watch?v=1MpfEeSem_4&t=160s)

Why Sustainable Food Systems Matter | Future of Food

National Geographic

(<https://www.youtube.com/watch?v=YEGISWTEgyU>)

Can The Food We Eat Help Tackle Climate Change?

BBC News

(<https://www.bbc.com/news/uk-scotland-59174874>)

Food Systems: Climate is Changing. Food and Agriculture Must Too.

Food and Agriculture Organization of the United Nations

(https://www.youtube.com/watch?v=_mHUPTpHp6o)

Food Waste Footprint

Food and Agriculture Organization of the United Nations

(<https://www.youtube.com/watch?v=loCVrkcaH6Q>)

Harvard Researcher: Food Waste Reduction Key to Combating Climate Change

Harvard University

(https://www.youtube.com/watch?v=AW_hQgbrTH8)



makanan



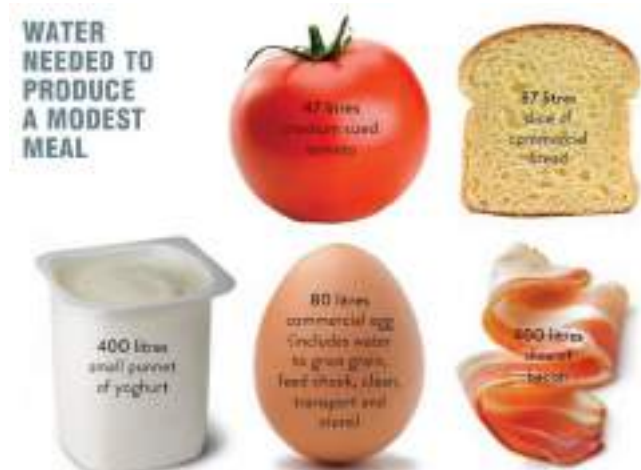
iklim



makanan → iklim



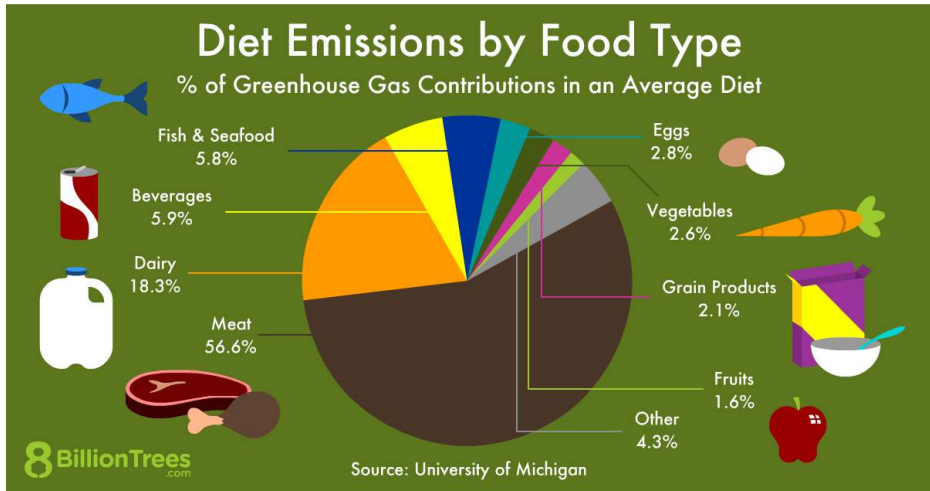
University of California
<https://www.youtube.com/watch?v=6RlxySFrkIM>



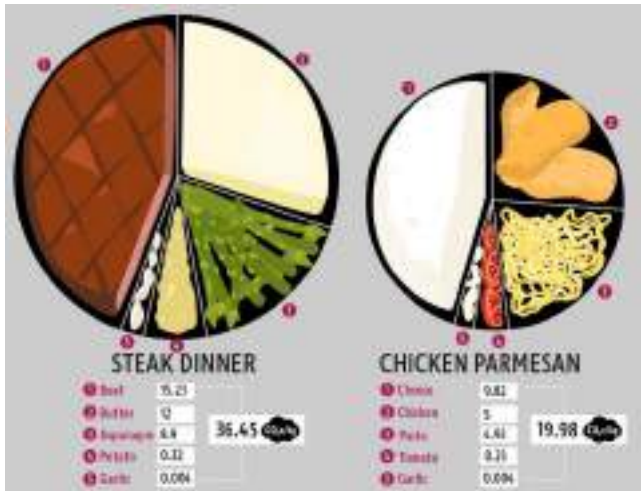
(Mobbs, 2012)



University of California
<https://www.youtube.com/watch?v=nUnJQWO4YJY>



<https://8billiontrees.com/carbon-offsets-credits/carbon-ecological-footprint-calculators/food/>



<https://www.teletnacnavman.com/resources/resource-library/infographics/food-miles-and-co2-emissions-infographic>

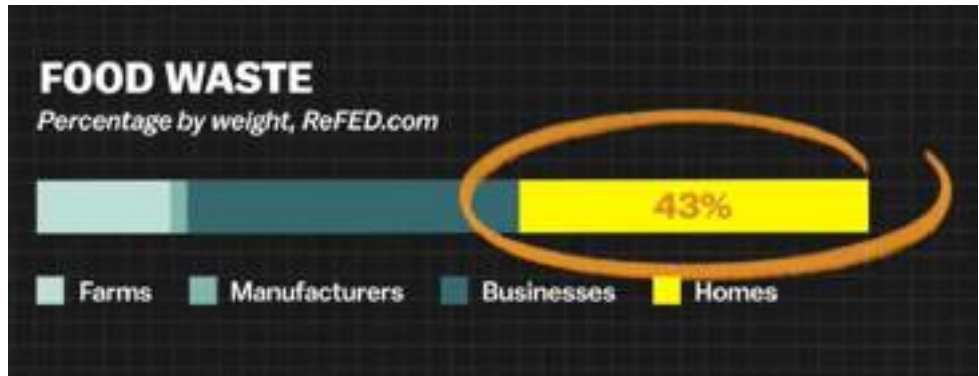
foodprint

“Whether it’s a salad, a hamburger or your morning egg sandwich, your meal has an impact on the environment and on the welfare of animals, food/farm workers and on public health”

<https://foodprint.org/what-is-foodprint/>



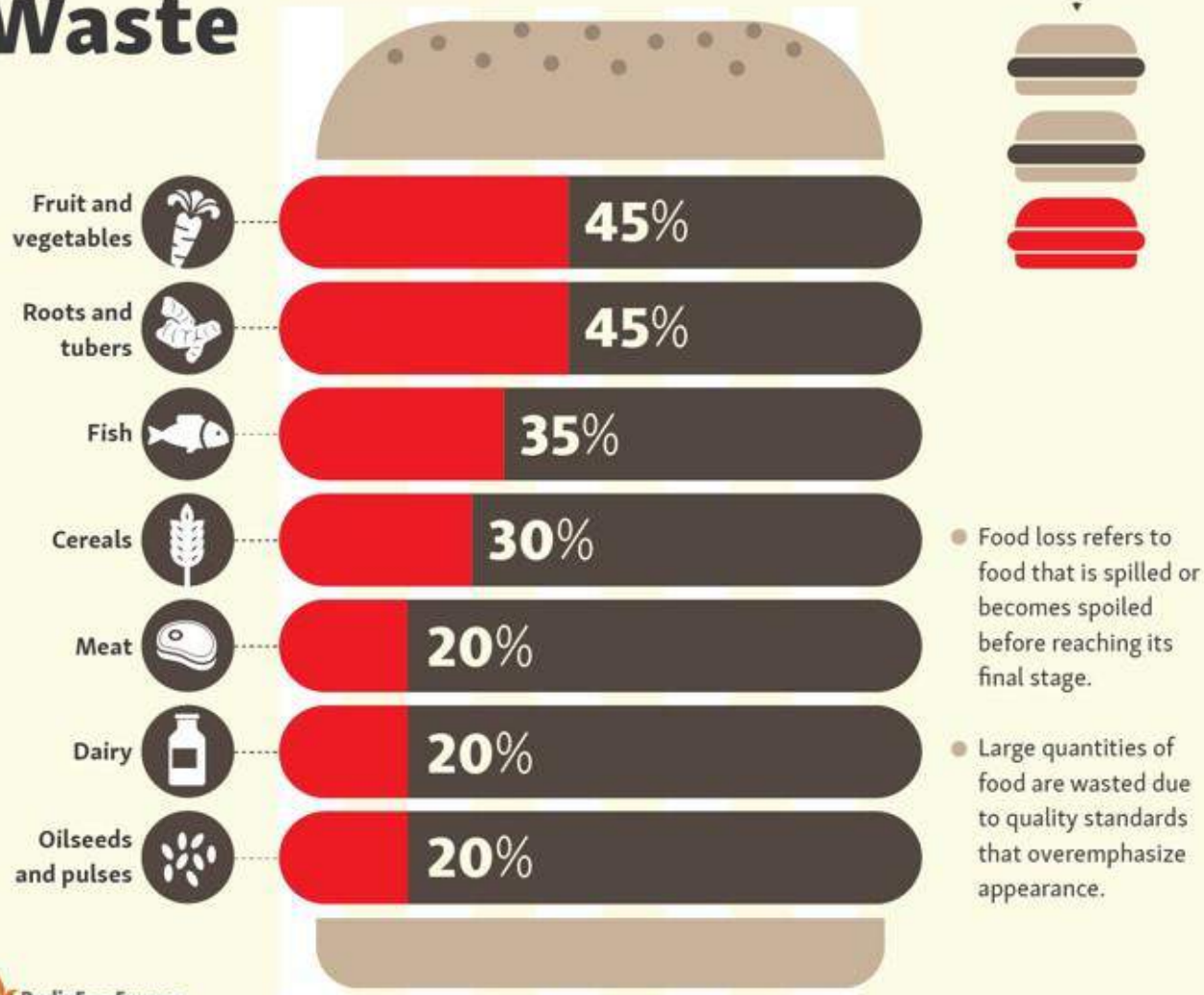
Our Changing Climate
https://www.youtube.com/watch?v=1MpfEeSem_4&t=160s



University of California
<https://www.youtube.com/watch?v=6RlxySFrkIM>

Global Food Waste

Approximately 1.3 billion tons of food is lost or wasted every year. That is about **one-third** of all the food produced for human consumption in the world.



Climate Change Is Affecting The Food You Eat. Here's How
CNN

<https://www.youtube.com/watch?v=HulsvwRN8YM>

How Climate Change Is Making Food Insecurity Worse

Thomson Reuters Foundation
<https://www.youtube.com/watch?v=ZCiRzSgo3A0>

Global Food Supply Jeopardised by Climate Change

Al Jazeera English
<https://www.youtube.com/watch?v=eX4Qpy2FyC8&t=2s>

How Is Climate Change Impacting Our Food Systems?

NDTV
<https://www.youtube.com/watch?v=TOdiDCLanBw>

How Climate Change Is Turning Healthy Vegetables Into Junk Food

NDTV
<https://www.youtube.com/watch?v=TOdiDCLanBw>

The Impact of Climate Change on Food Security and Nutrition – Focus on Adaptation

Food and Agriculture Organization of the United Nations
<https://www.youtube.com/watch?v=pkfeZi1QS2M>

iklim



makanan

The Effect of Climate Change on Food Security

Eco-Youth
<https://ecoyouth.org/2021/01/11/the-effect-of-climate-change-on-food-security/>

How Climate Change Will Alter Our Food

Columbia Climate School
<https://news.climate.columbia.edu/2018/07/25/climate-change-food-agriculture/>

How Climate Change Could Make Our Food Less Nutritious

TED
<https://www.youtube.com/watch?v=wzjVT07bcYA>



It is affecting crop yields

 **Maize**



Recent price spikes for hard-fired beer
linked to extreme weather events.

SEASONAL CLIMATE EXTREMES AND THE FOOD PRICE INDEX

Price index

1980 1990 2000 2010

1. August-dry 2. May-wet 3. Dec-dry 4. Nov-wet 5. 100% wet 6. 100% dry

Percentage of people under 18 years old: 30%



Poor people spend a higher proportion of their income on food - so price rises affect them more

Country	Percentage
Mozambique	76%
Pakistan	75%
Vietnam	74%
USA	27%

Expenditure on the



- Changing planting date
- Adjusting market supply
- Using different cultivars and rootstocks

Crop and pasture yields are likely to decline in many places



small scale

100

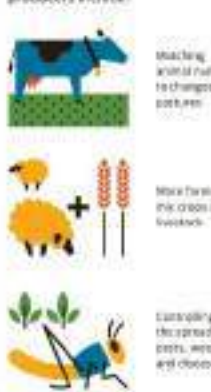
Temperate regions will benefit less from adaptation than tropical regions

Temperate regions will benefit less from adaptation than tropical regions



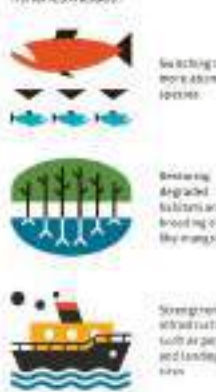
Key adaptations for small-scale producers include:

Key adaptations for small-scale producers include:



Key adaptations for small scale fisheries include:

Key adaptations for small scale fisheries include:



Widespread impacts on food and farming are highly likely

Average decline in yields for eight major crops



Marine fisheries will also be affected.



Temperature increases of more than 4°C will endanger the ability of farms and ecosystems to adapt.

Temperature increases of more than 4°C will endanger the ability of farms and ecosystems to adapt.

Water cycles will be very different and less predictable



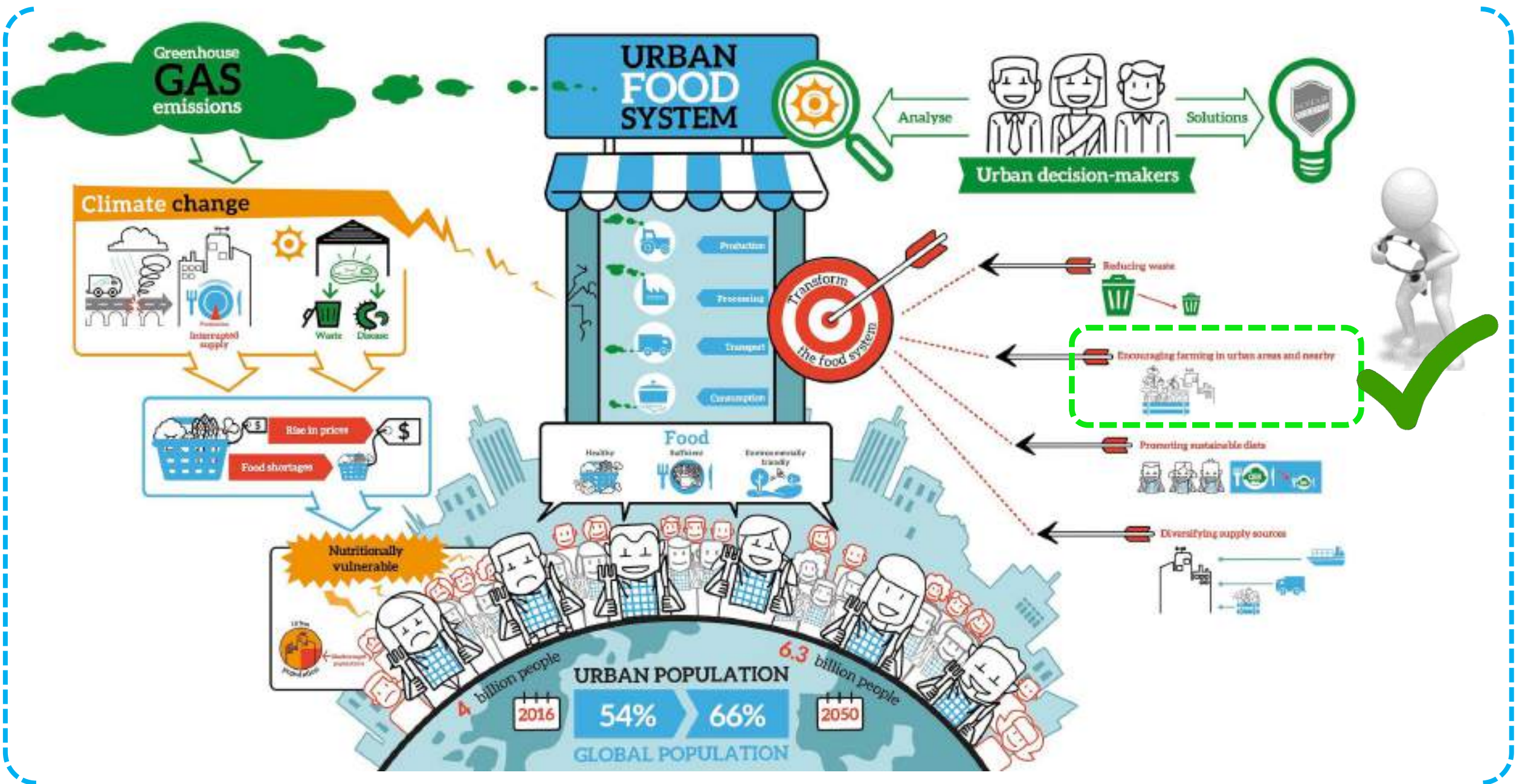
To cope with climatic changes, we may need to consider

Computers/digital data

Offsetting production (e.g. for landfills, crops, livestock and fisheries)

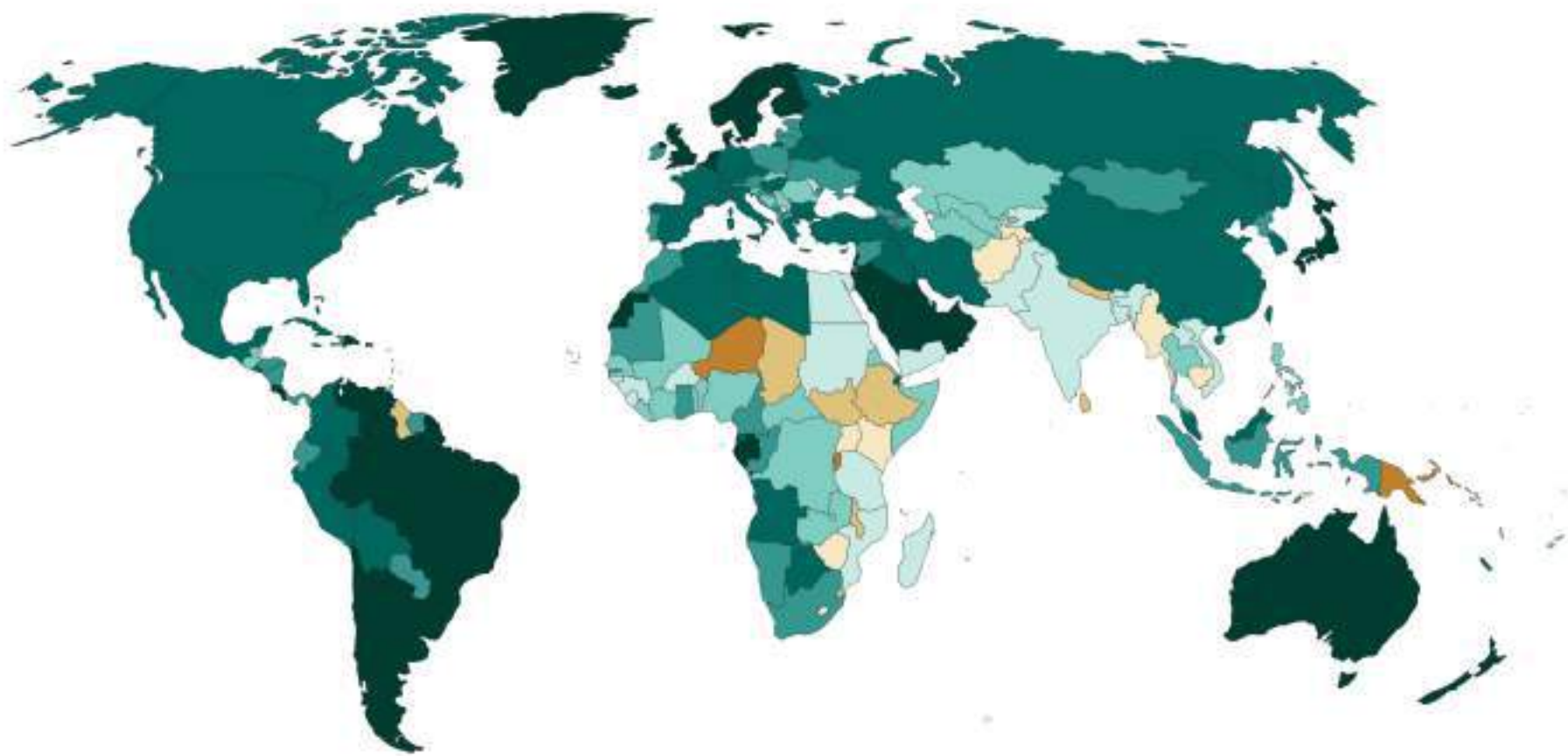
New approaches to managing water, soil and energy to food supply chains

Restoring degraded farmlands, wetlands and forests



Share of the population living in urban areas, 2050

Share of the total population living in urban areas, with UN urbanization projections to 2050.



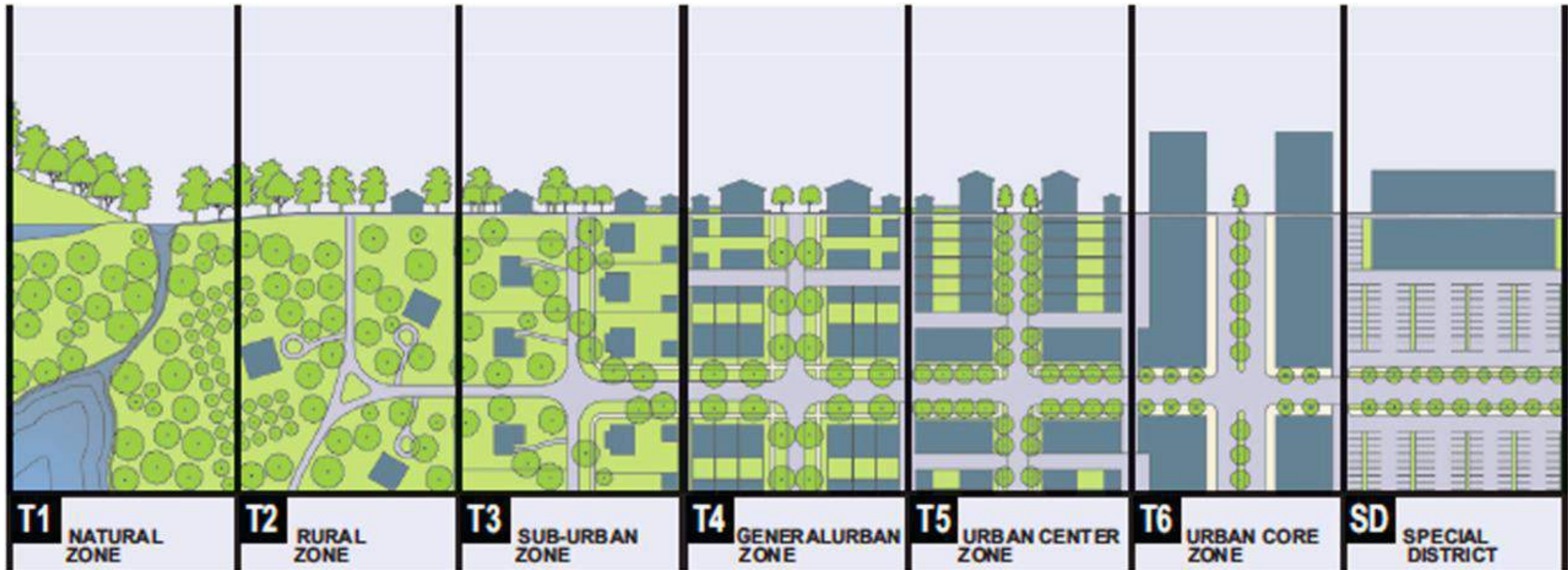
fenomena
urban



←
→

food

rural area urban area

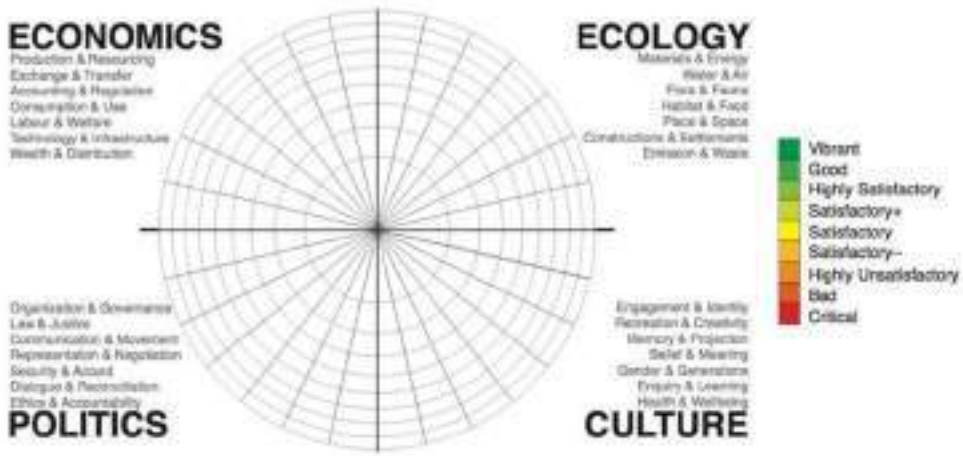
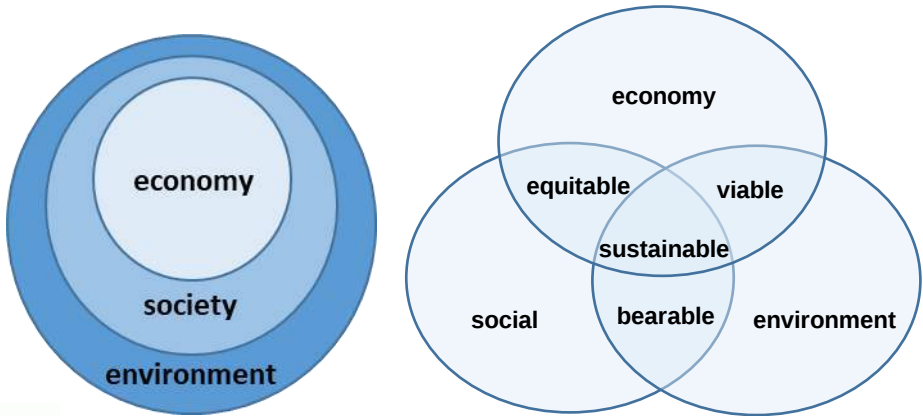


A Typical Rural-Urban Transect, with Transect Zones

Transect-based planning → form dan elemen tertentu untuk lingkungan tertentu (Andrés Duany)

(<https://transect.org/>)

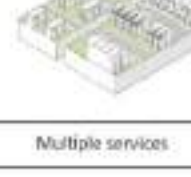
sustainable sustainability



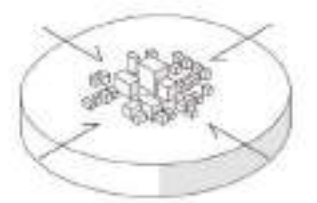
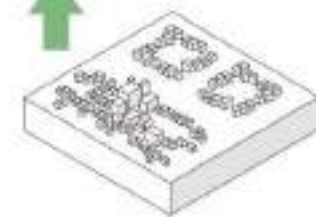
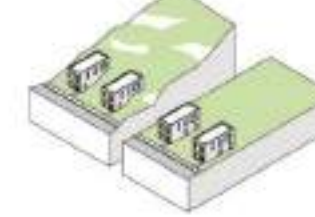
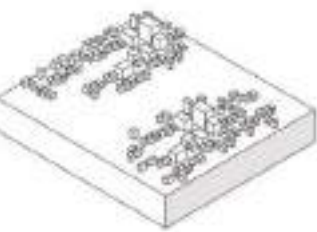
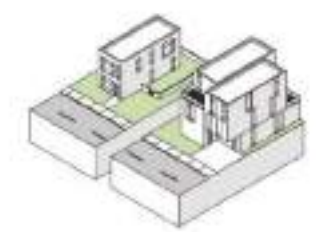
“The carrying capacity of the earth”
(The United Nations Conference on the Human Environment, 1972)

“Development that can meet the needs of the present generation without compromising the ability of future generations to meet their own needs”
(the [United Nations Brundtland Commission](https://www.un.org/development/desa/policy/undp/publications-and-reports/undp-works/undp-works-2018-2019), 1987)

“The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity”
(<https://www.undp.org/sustainable-development-goals>)

ECONOMY	ENVIRONMENT	CULTURE	SOCIAL
			
Live-Work	Rainwater recycling	Nearby schools	Access to recreational areas
			
Mixed income communities	Orientation for passive solar gain	Backyards and gardens	Local food production
			
Multiple services	Recycled content in construction	Street furniture / Public art	Access to municipal and public spaces

Some Key Aspects to Consider In the Preparation of A Sustainable Master Plan
(Friedman, 2021)

		
Avoid planning for sprawl	Denser urban form	Consider existing topography
		
Links to neighbouring communities	Multi-unit dwellings	Mixed-use zoning

Some Key Aspects to Guide the Planning of A Sustainable Community





FOODSCAPE

- **suatu produk sosial dan budaya**
(Lexi, 2008),
- **materialisasi dari urban food system**
(Salvador, 2019),
- **multidimensi**
(Adema, 2009);
- **dinamis**
(Mackendrick, 2014),
- **skala yang berbeda**
(Sobal & Wansink, 2007)
- **place**
(Wegerif dan Wiskerke, 2017)
- **sistem hubungan**
(Mikkelsen, 2011)
- **tradisi**
(Kwik, 2008)

foodscape = food + landscape

*What is a foodscape? The **intersection** of **food places**, **public space** and **public life** – and the experience people have in their **neighborhoods** and **communities** within that intersection*

<https://gehlpeople.com/wp-content/uploads/2019/08/Food-scape-gif.gif>

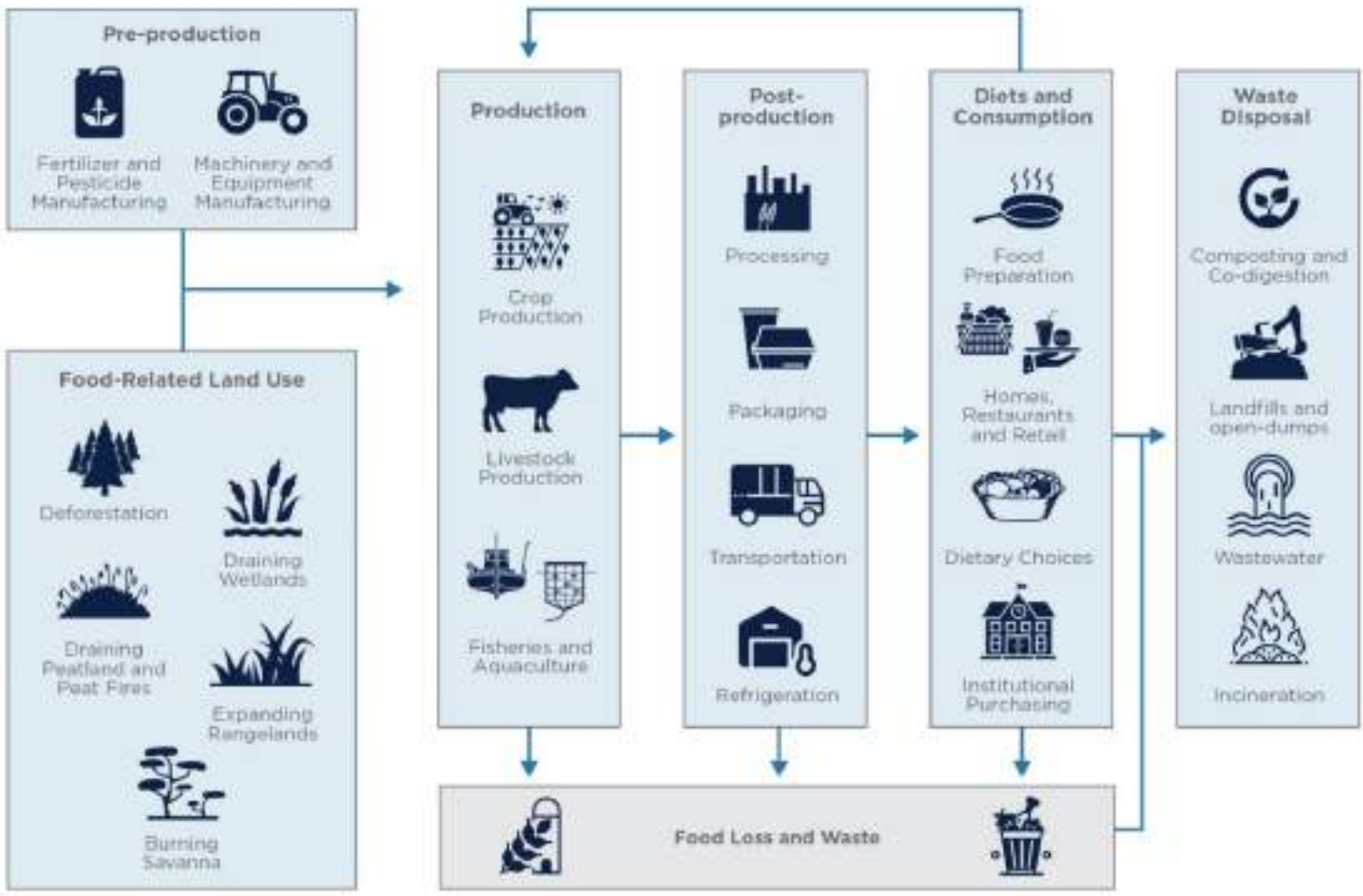


food
system



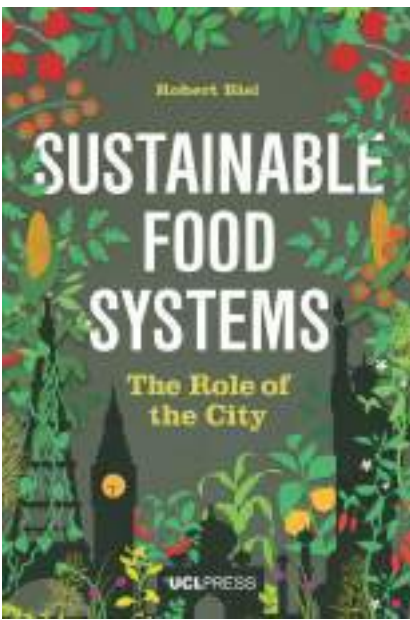
sustainable
urban design

?



Source: All icons are sourced from The Noun Project under the Creative Commons BY 3.0 Attribution License. From top left to bottom right: Fertilizer by Syarif Amri, Tractor by Oliver, Forest by Nesden Booth, Wetland by Iconathon, Moss by Laymik, Thick Grass by Hamish, Savanna by Hamish, Farming by ProSymbols, Cow by Alexandr Lavrenko, Boat by Amethyst Studio, Aquaculture by Angelo Troiano, Grains Silo by Ben Davis, GMO by Stephanie Wauters, Food Container by dData, Transport by Prianka, Temperature by Andres Kirtsa, Cooking by Erik Arndt, Grocery by iconixar, Fast Food by Kristina Margaryan, School Building by Slopker Collective, Waste by Priyanka, Compostable by Luca Reghellin, Excavator on Landfill by Peter van Drie, Wastewater by Mayadee, and Incineration by Eupalyjs.

food system

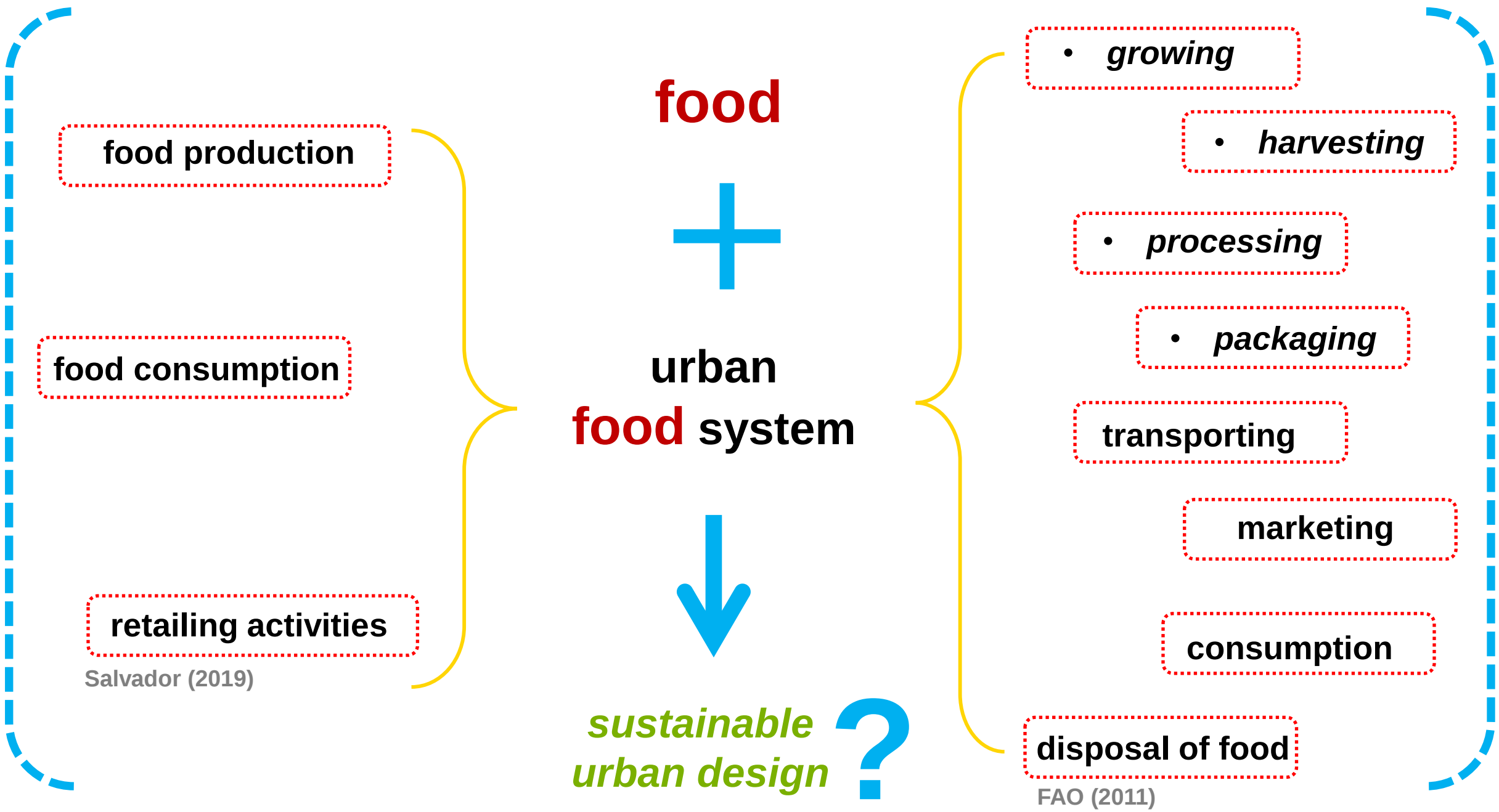


peran kota:

The city, our specific case study, can make a key contribution. By contributing more to feeding itself, the city takes pressure off the rural economy, allowing the latter to undertake conversion; there is also much scope, through biomimicry, to re-design cities in a way conducive to sustainability; and benign social networks likewise have great scope for self-organisation.

‘The world needs a paradigm A new model of food and farming in **agricultural development**: from a ‘green revolution’ to an ‘**ecological intensification**’ approach. This implies a rapid and significant shift from conventional, monoculture-based and high-externalinput-dependent industrial production towards **mosaics of sustainable regenerative production systems** that also considerably improve **the productivity of small-scale** farmers.

the UN Conference on Trade and Development (UNCTAD)





“what a bee can be”

(Kurnia, 2022)



food



urban design



Giving Nature a Home in Cities: Bricks for Bees' Nests



“If insects were to vanish, so would nearly all flowering plants and the food webs they support. This loss, in turn, would cause the extinction of reptiles, amphibians, birds and mammals: in effect, nearly all terrestrial animal life. The disappearance of insects would also end rapid decomposition of organic matter and thus shut down nutrient cycling. Humans would be unable to survive.”



22

Chippendale's Food Story

Peace Park



food production



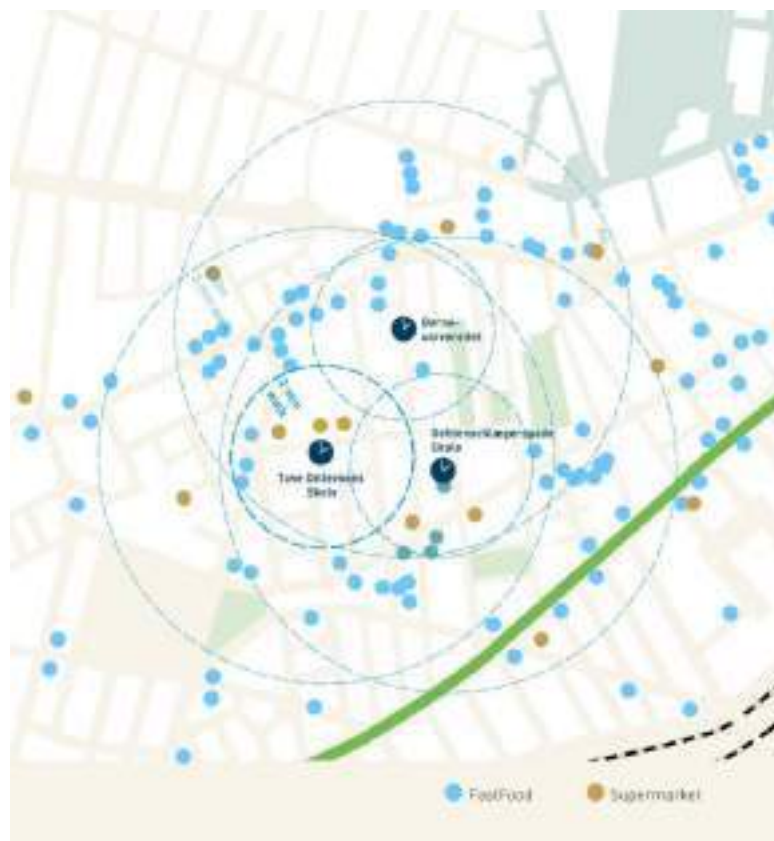
Council worker using jack hammer to excavate dead soil, toughened by years of no water, no nutrients, nothing except people walking over it.

Redesigning Neighborhoods to Shift Youth Diets

Nørrebro and Vesterbro, Copenhagen, Denmark

Designing Places That Invite For New Food Choices

perubahan perilaku



food production & consumption



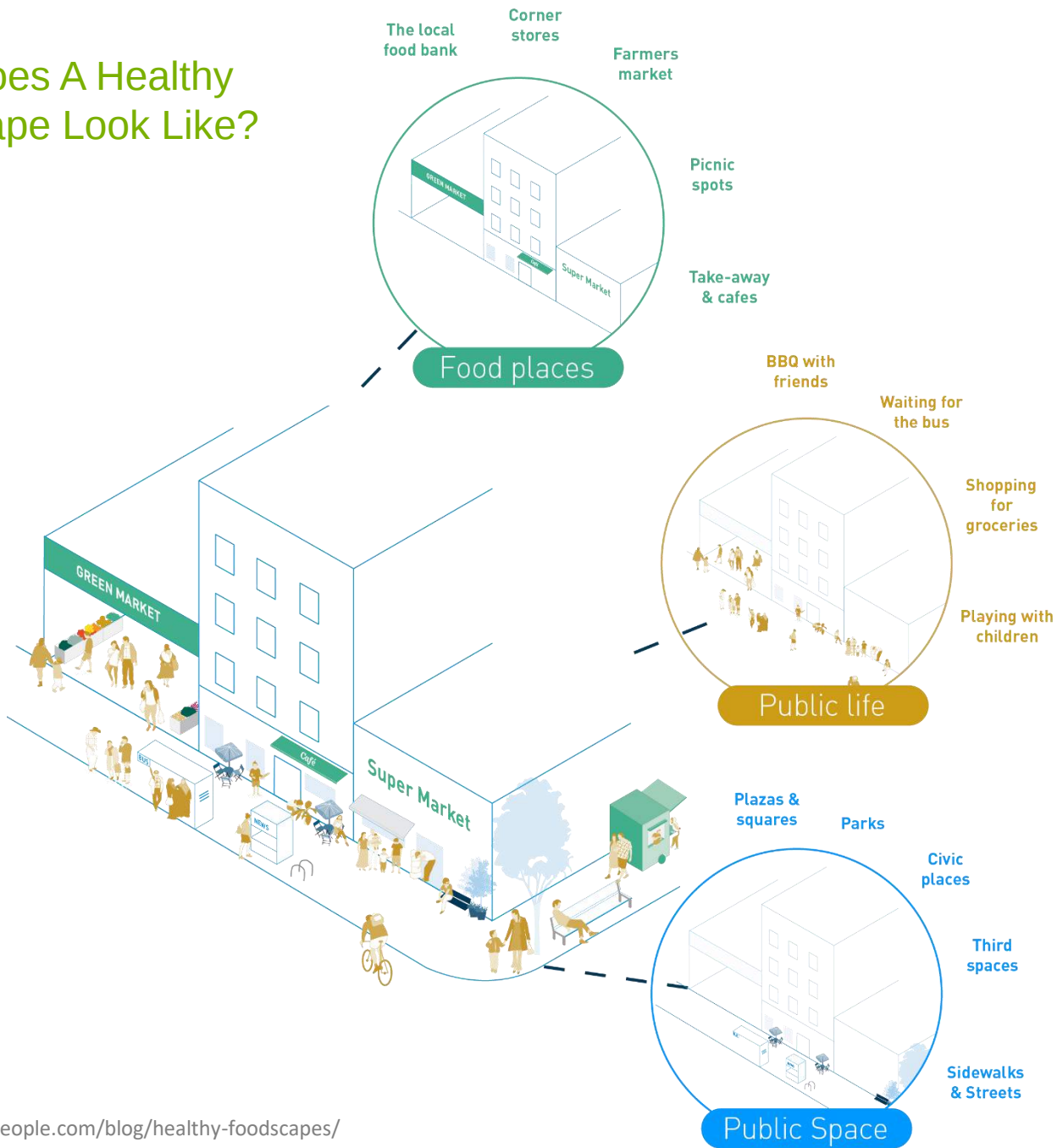
food production & consumption



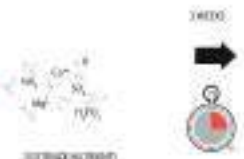
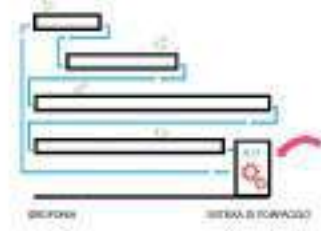
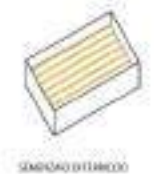
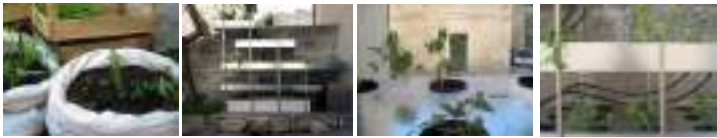
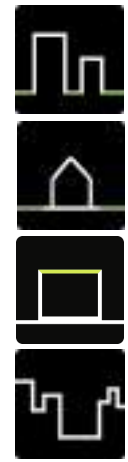
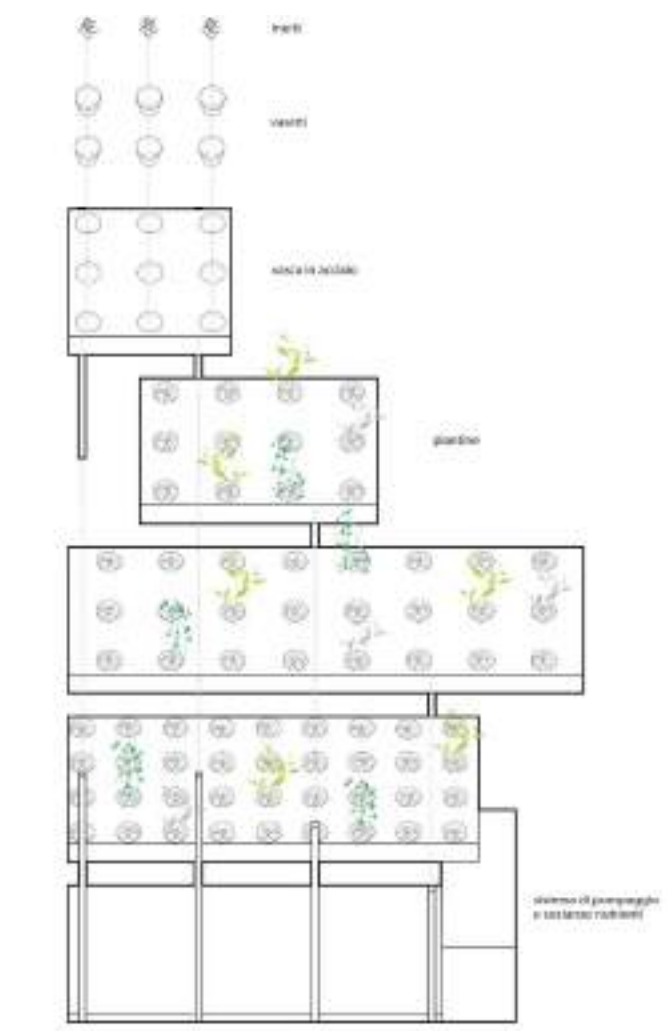
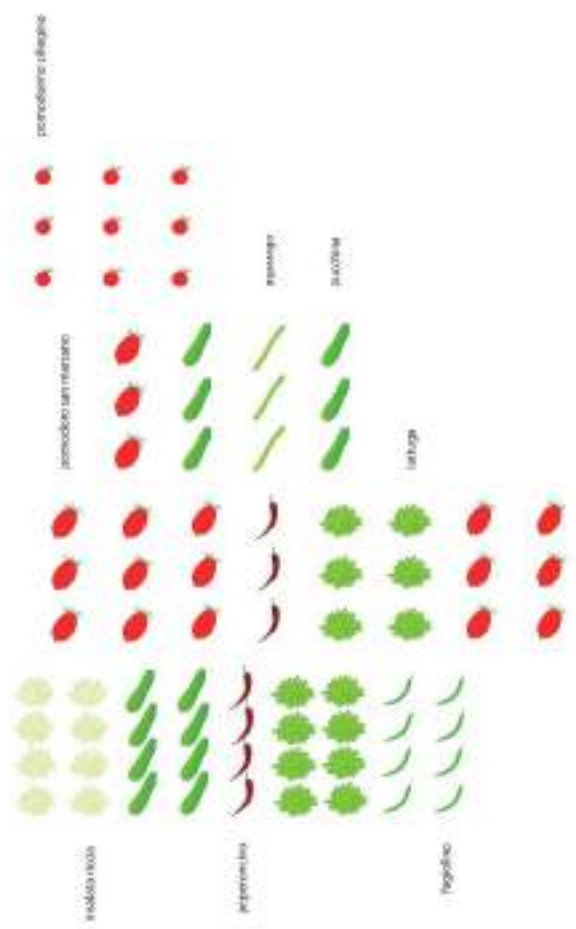
Location	Close proximity to where physical activity takes place	Walking distance from home and/or school	Accessible day and night
	Varied seating options for large and small groups	Access to sheltered outdoor spaces	Safe and secure: protected from traffic, noise, crime etc.
	Colourful and interesting aesthetic	Ability to take ownership	Ability to be spontaneous: active or passive
Offering	Welcoming and accepting staff	Affordable food options	Varied ways to stay: opportunity to bring own food, buy to eat or take-away, stay with friends who buy



What Does A Healthy Foodscape Look Like?



Idroponia



Camden City Garden Club, Inc.

Camden
USA



open



city



periurban



semi-public

WHO Camden city Garden Club, Inc.

LAUNCHDATE 1985

SIZE 16,200m2

DURATION ongoing



AGRONOMIC CYCLE



IDEOLOGICAL DRIVERS

GENERAL INFORMATION

Project no. 1041



Casa Huerta

WHO Casa Huerta

LAUNCHDATE 2009

SIZE 60 m2

DURATION 2009

Buenos Aires
ARGENTINA



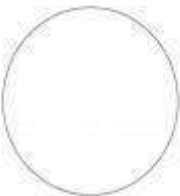
constructed



city



center



public



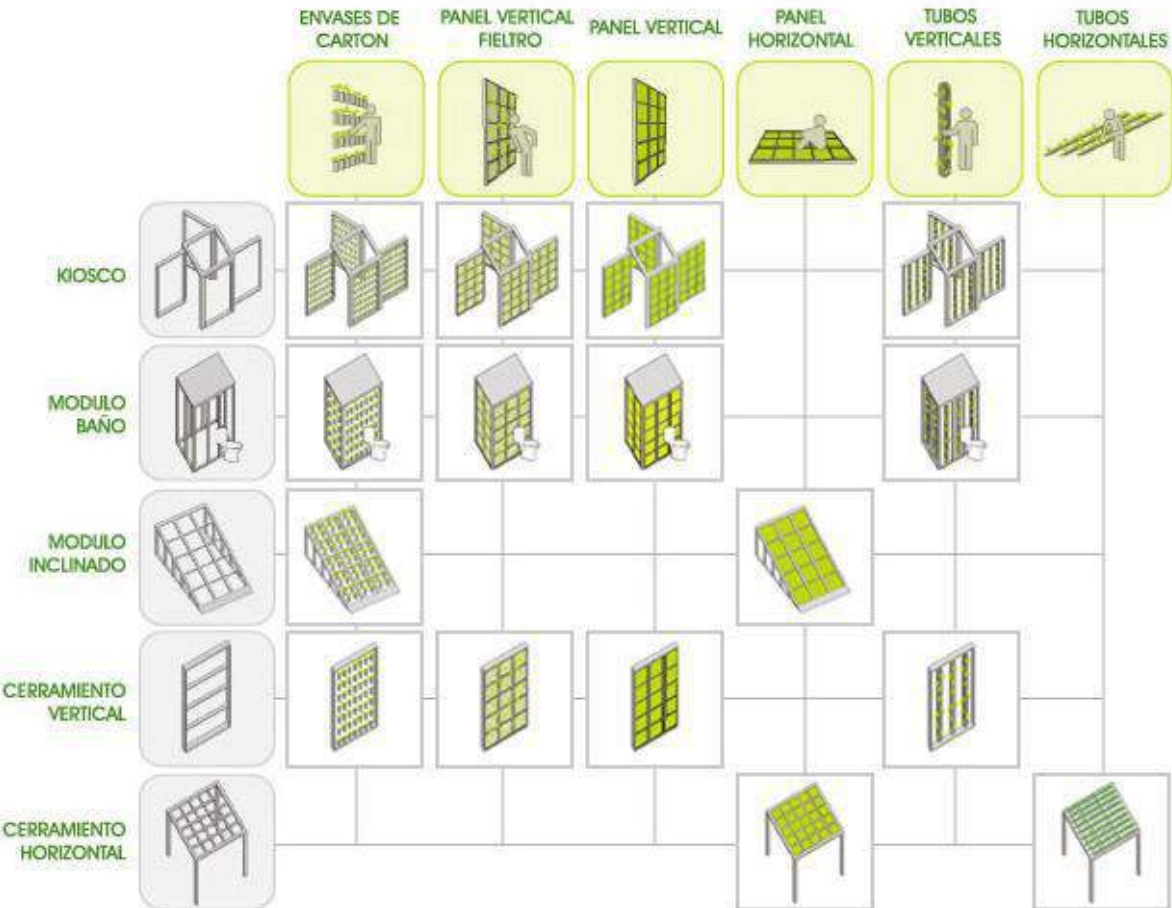
AGRONOMIC CYCLE



IDEOLOGICAL DRIVERS

GENERAL INFORMATION

Project no. 1042



Plantages de Lausanne

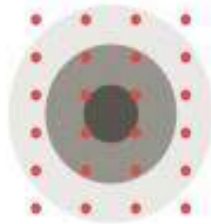
Lausanne, SWITZERLAND



open



city



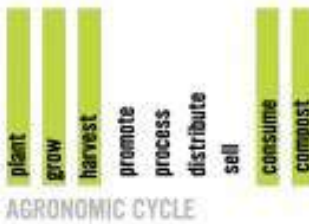
dispersed



semi-public

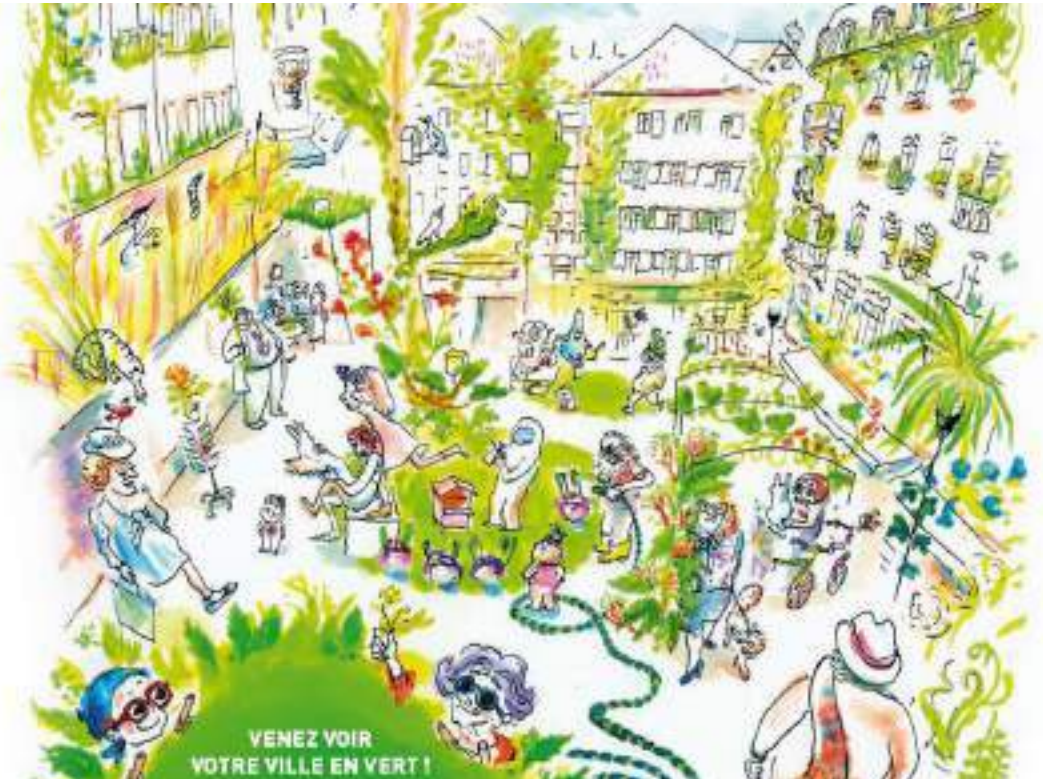
WHO Park Service, City of Lausanne
FU MODE micro plot

SIZE 6-48m2
LAUNCHDATE 1996



<http://www.foodurbanism.org>

Project no. 1200



Le 56 – Ecointerstice

Paris, FRANCE



enclosed building/garden center semi-public

WHO aaa (studio for self-managed architecture)

FU MODE collective garden

SIZE 200m2

LAUNCHDATE 2005

plant grow harvest promote process distribute sell consume compost

AGRONOMIC CYCLE

biodiversity community development energy cycle food shed habitat indigenous food sustenance pleasure re-use soil water

IDEOLOGICAL DRIVERS

FOOD
URBANISM

<http://www.foodurbanism.org>

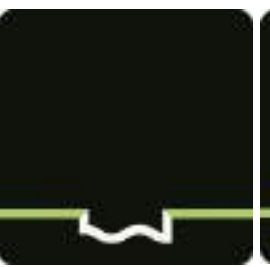
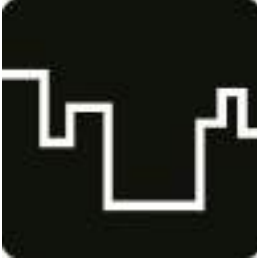
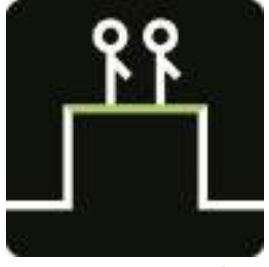
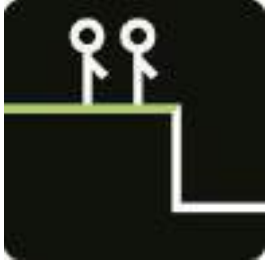
Project no. 1228





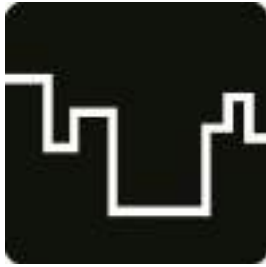
“where”

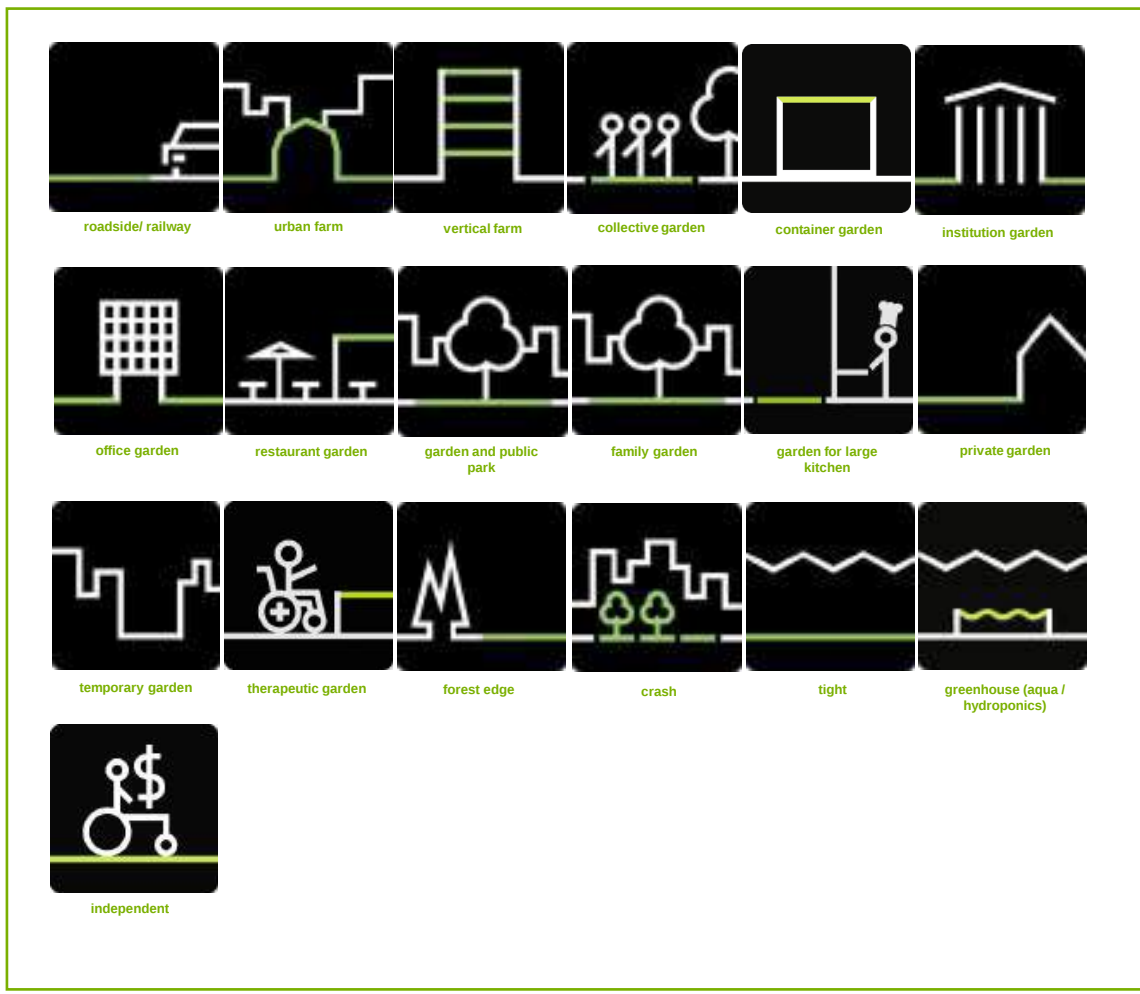
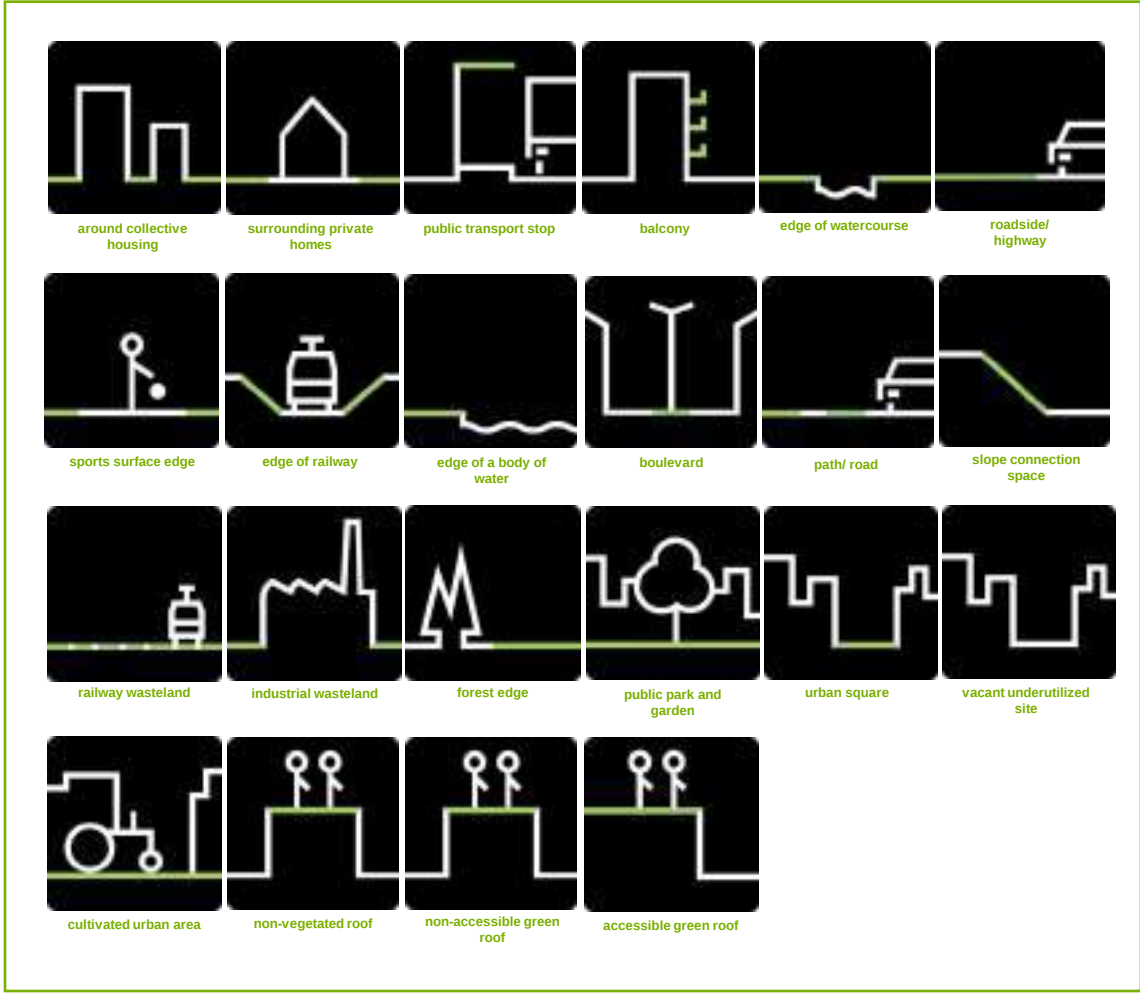


 around collective housing	 surrounding private homes	 public transport stop	 balcony	 edge of watercourse	 roadside/ highway
 sports surface edge	 edge of railway	 edge of a body of water	 boulevard	 path/ road	 slope connection space
 railway wasteland	 industrial wasteland	 forest edge	 public park and garden	 urban square	 vacant underutilized site
 cultivated urban area	 non-vegetated roof	 non-accessible green roof	 accessible green roof		

“how”



 roadside/ railway	 urban farm	 vertical farm	 collective garden	 container garden	 institution garden
 office garden	 restaurant garden	 garden and public park	 family garden	 garden for large kitchen	 private garden
 temporary garden	 therapeutic garden	 forest edge	 crash	 tight	 greenhouse (aqua / hydroponics)
 independent					

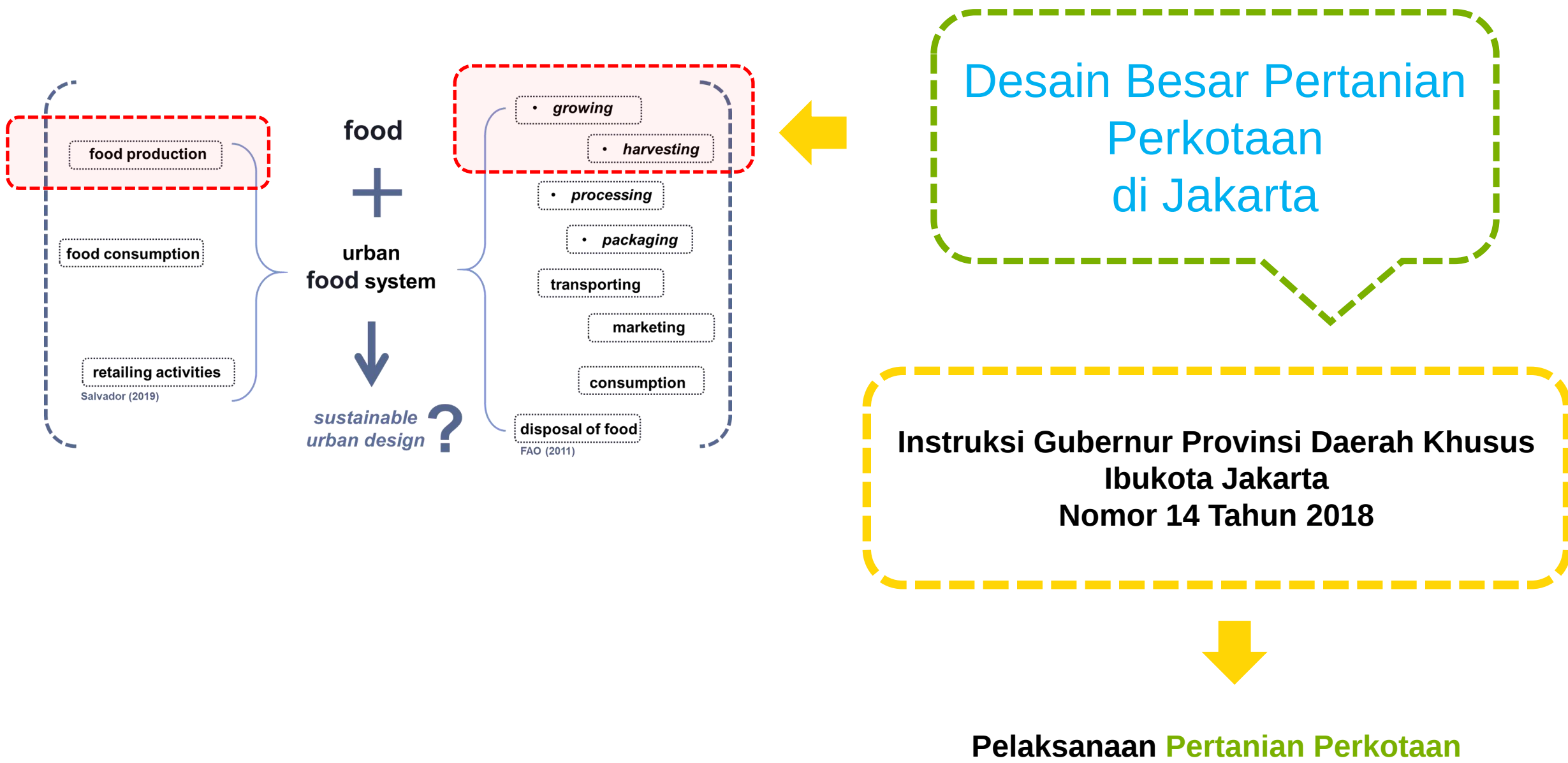


sustainable food patch



di **Jakarta** ?







SiPetaniDKI

Maju Kotanya, Bahagia Warganya



Dinas Ketahanan Pangan, Kelautan dan Pertanian Provinsi DKI Jakarta

Bahasa Indonesia (ID)

KIRIM LAPORAN

BERANDA

LAPORAN-LAPORAN

KIRIM LAPORAN

DAPATKAN PEMBERITAHUAN

KONTAK KAMI

TENTANG SIPETANI DKI

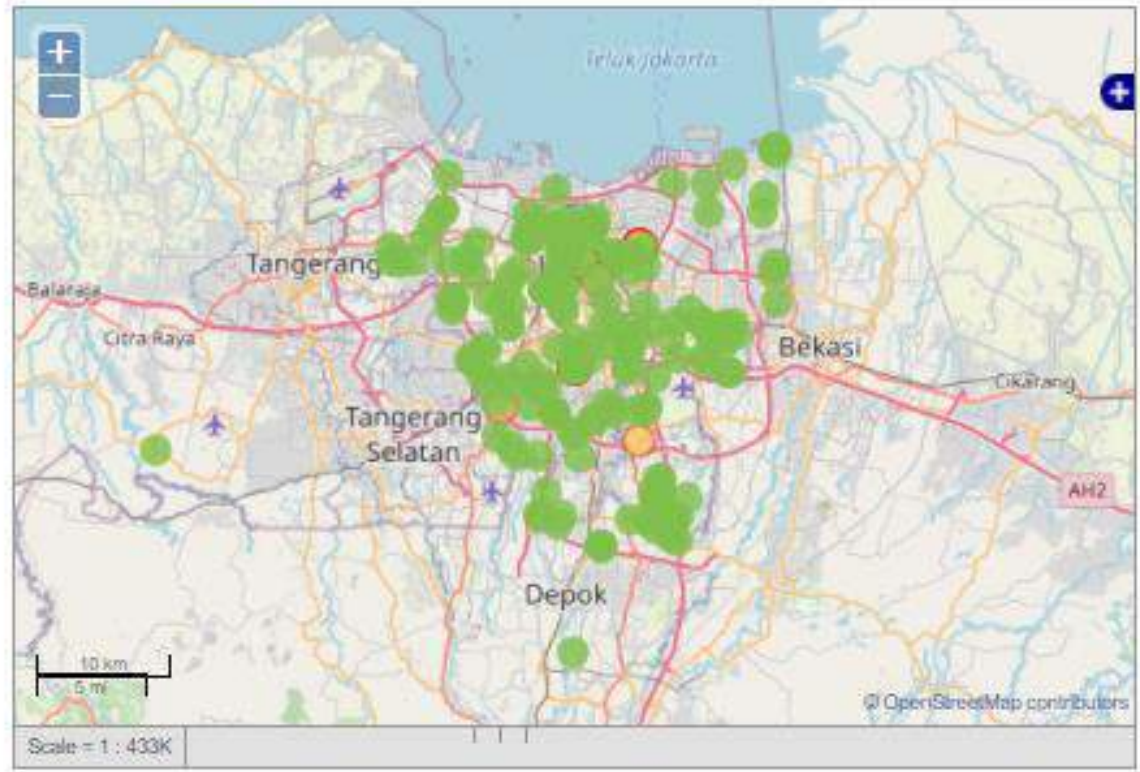
FORMULIR UNTUK PUBLIK

DKPKP DAN UPT

UNDUH LAPORAN

SARINGAN **SEMUA** BERITA GAMBAR VIDEO

FILTER KATEGORI | SEMBUNYI



- SEMUA KATEGORI
- URBAN FARMING
 - KEBUN BIBIT
 - AGROWISATA
 - KELOMPOK TANI
 - BALAI PENYULUHAN PERTANIAN
 - KAJIAN TEKNOLOGI PERTANIAN

SiPetaniDKI





rumah susun



sentra komoditas
unggulan buah lokal



gedung



lahan kosong

7 sasaran
ruang



RPTRA

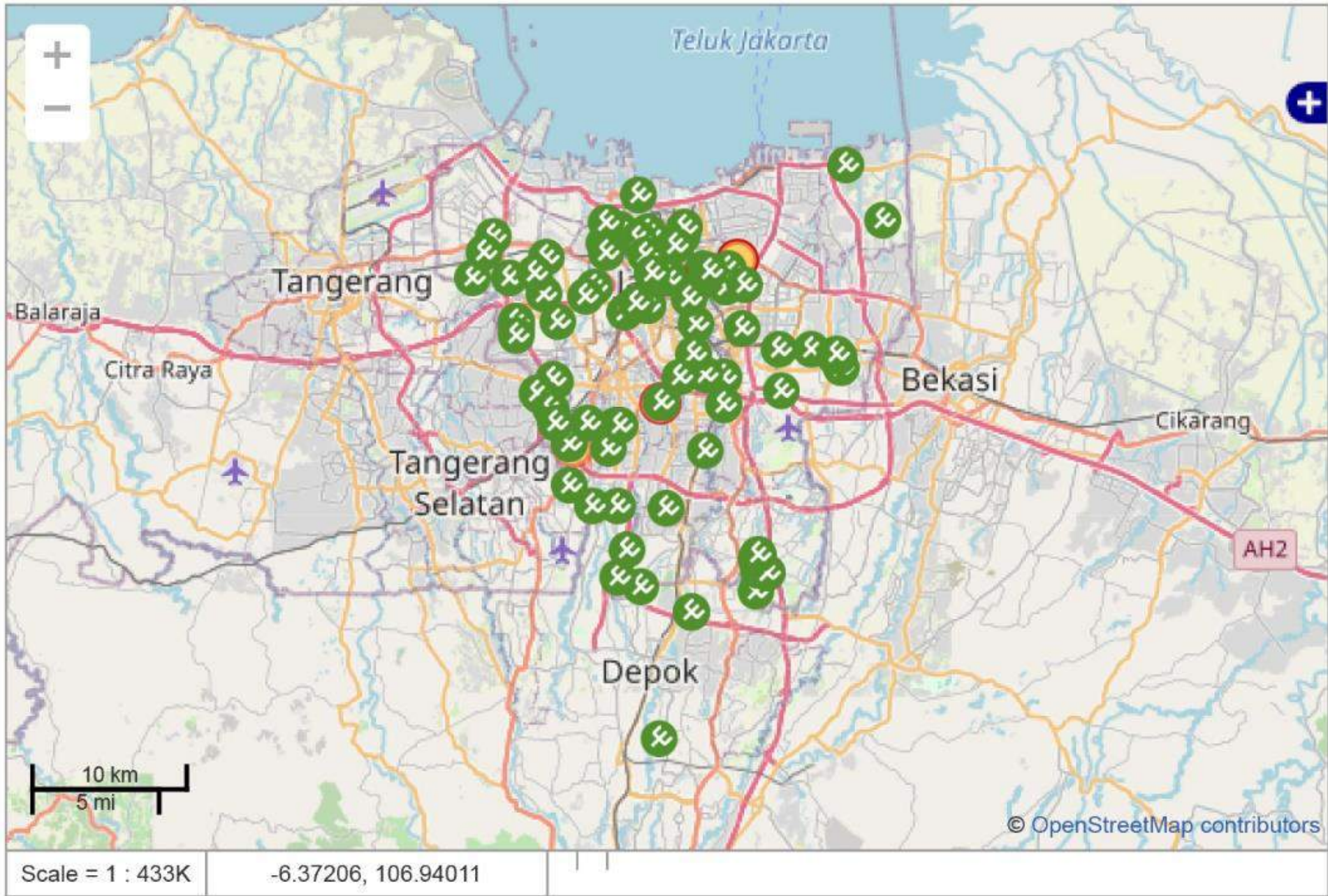


pekarangan & gang



sekolah

URBAN FARMING





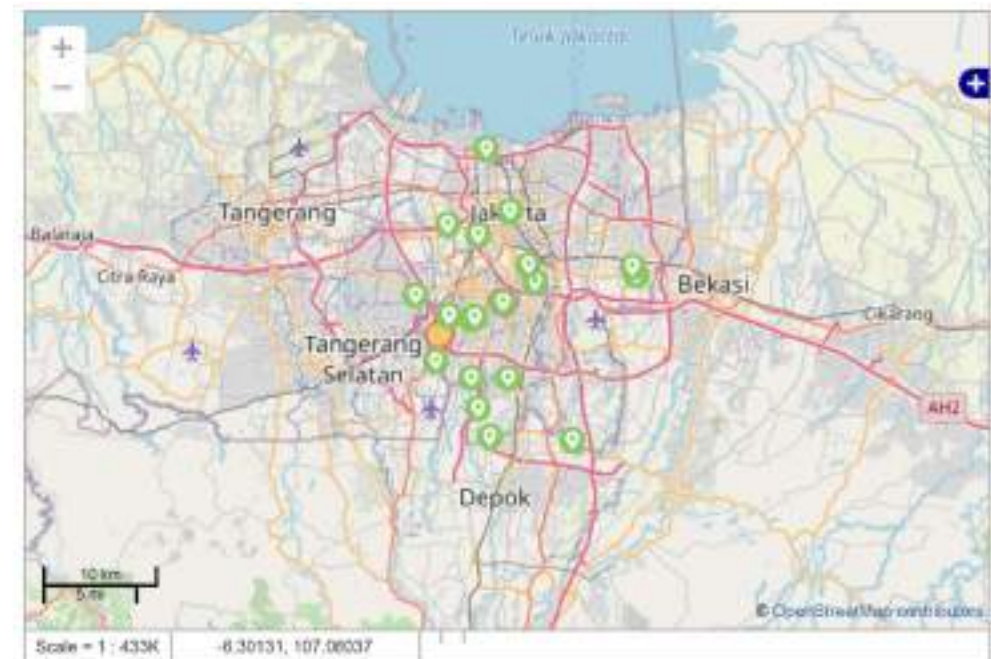
Perkarangan dan Gang



RPTRA

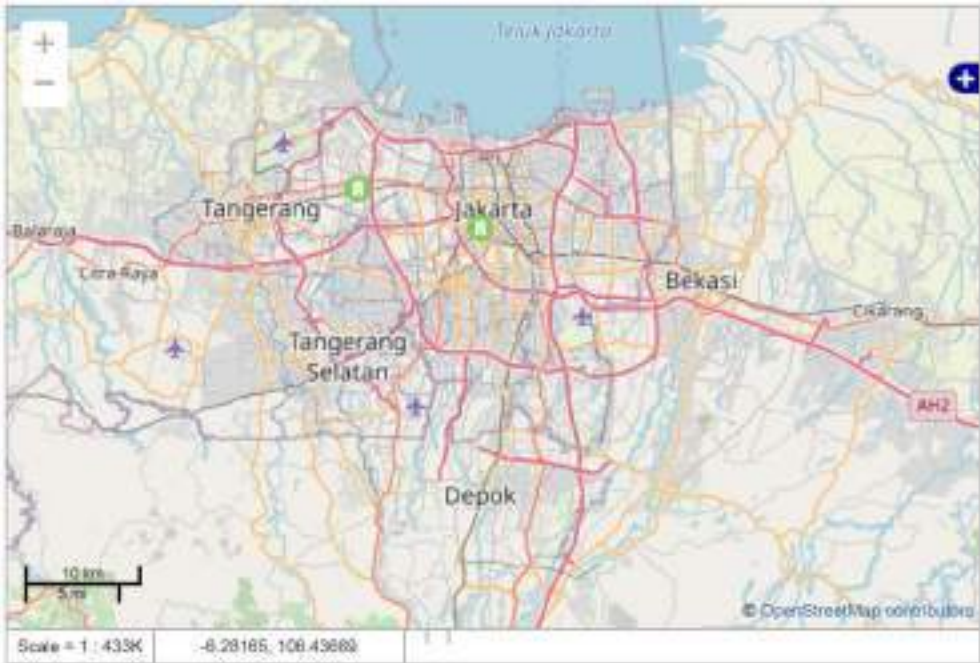


Rusun

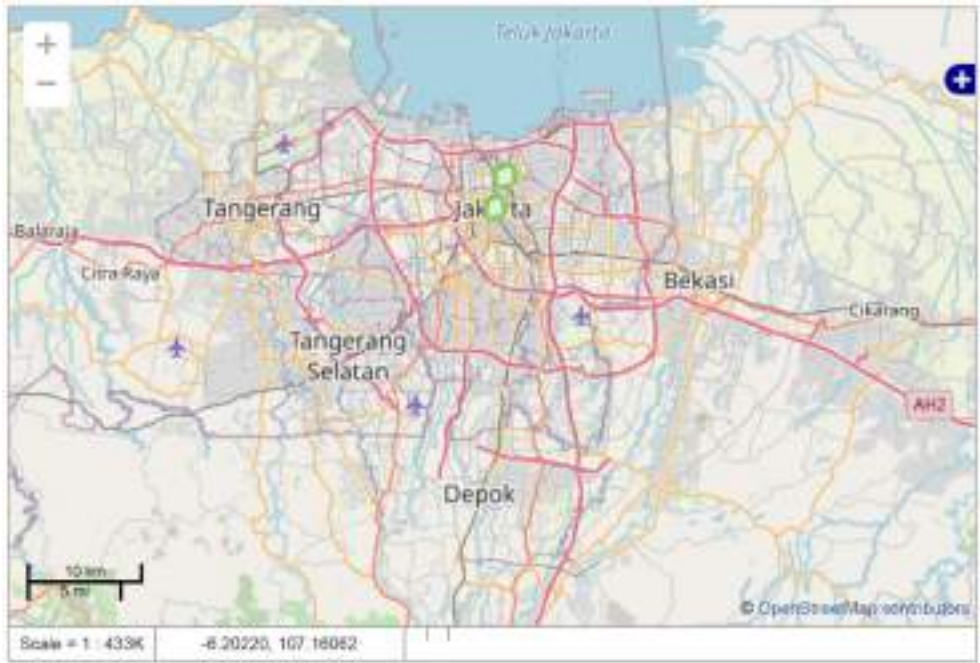


Lahan Kosong

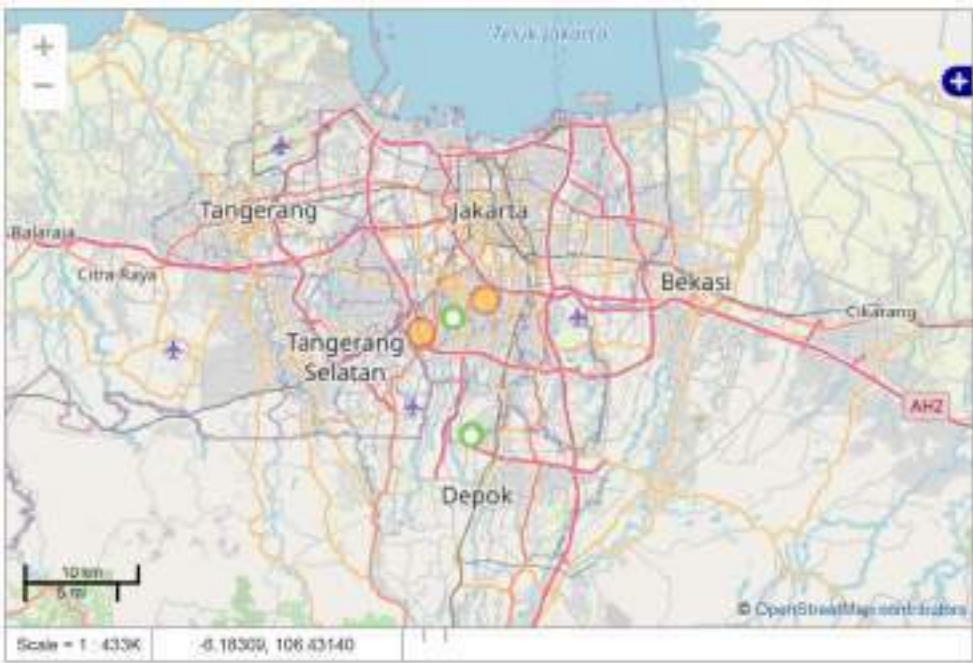
Sekolah



Gedung



Sentra
Komoditas
Unggulan
Buah Lokal



Cikini

Kebayoran
Lama



<https://www.thejakartapost.com/news/2020/10/27/urban-farming-a-solution-to-food-security-issues-during-pandemic.html>



<https://www.thejakartapost.com/news/2020/04/07/grow-your-own-urban-farming-flourishes-in-coronavirus-lockdowns.html>

Cikini



<https://www.thejakartapost.com/news/2017/05/23/jakarta-artans-to-see-more-urban-farming.html>



Cipete,
Kebayoran
Baru





Kampung
Hijau





Menteng

<https://foto.kompas.com/photo/read/2020/10/16/160283072868b/1/urban-farming-yang-kian-bergeliat-di-jakarta#&gid=1&pid=1>

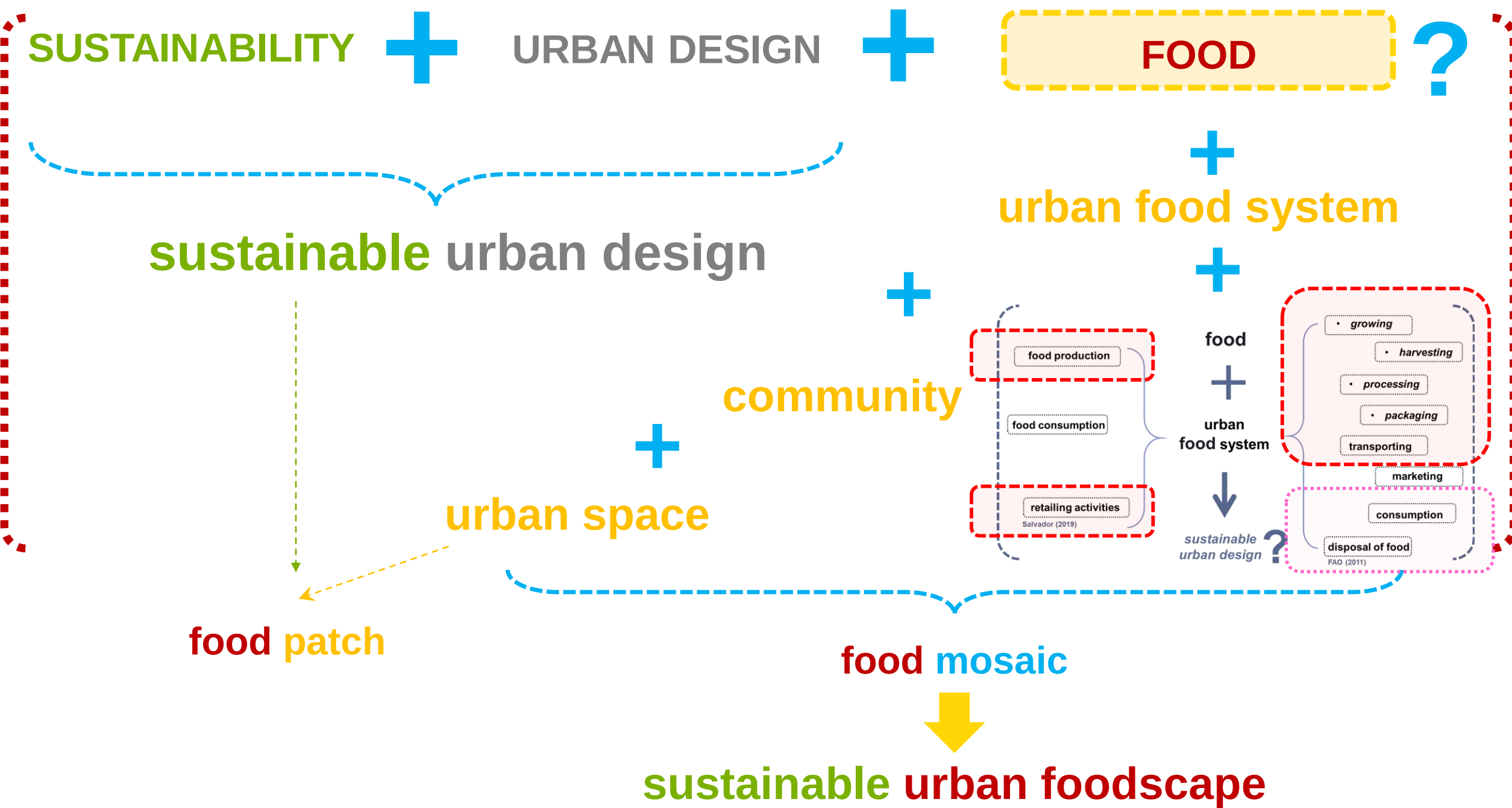




Ruang Publik
Terpadu
Ramah Anak
(RPTRA)
Gondangdia



https://tamunion.or.id/wp-content/uploads/2020/05/Pertanian-Perkotaan-DKI-Jakarta_teknologi-hidroponik.pdf





terima kasih

