



WRI TURKEY SUSTAINABLE CITIES BRIEF

ABOUT WORLD RESOURCES INSTITUTE



World Resources Institute (WRI) is a global research organization that spans more than 60 countries, with international offices in Brazil, China, India, Indonesia, Mexico and the United States, regional offices in Ethiopia (for Africa) and the Netherlands (for Europe), and program offices in the Democratic Republic of Congo, Turkey and the United Kingdom. WRI's more than 1,300 experts and staff turn big ideas into action at the nexus of environment, economic opportunity and human well-being.

Natural resources are at the foundation of economic opportunity and human well-being. But today, we are depleting Earth's resources at rates that are not sustainable, endangering economies and people's lives. People depend on clean water, fertile land, healthy forests, and a stable climate. Livable

cities and clean energy are essential for a sustainable planet. Therefore, WRI focuses on urgent global challenges that must be addressed to reduce poverty, grow economies and protect natural systems: Water, Forest, Climate, Energy, Cities, Food, and the Ocean.

Started to work in 1982, WRI has earned a reputation for practical solutions and global impact based on rigorous analysis and deep long-term engagement with governments, corporations, city leaders and communities. It has also become leaders in the use of new technologies and big data, while expanding the "do tank" side of its work to ensure better impact from its traditional "think tank" role. Most of its experts today are actively engaged with decision-makers on the front line.

WRI's APPROACH

Count It

WRI starts with data, creating user-friendly information systems, protocols and standards. It conducts independent, unbiased research to analyze relationships and design solutions, and communicates the findings in a compelling manner.

Change It

WRI works with leaders of cities, companies and countries to achieve change, testing its ideas in complex, messy, real-world situations. It sets clear objectives and hold itself accountable.

Scale It

WRI identifies and overcomes barriers to change so that proven solutions spread quickly and widely. It works with coalitions of remarkable leaders who transform business sectors, societies and economies, nationally and globally.

ABOUT WRI ROSS CENTER FOR SUSTAINABLE CITIES

We made an impact on
12.7
billion people

We have saved
3,210
lives

We have leveraged
\$30.1
billion

WRI Ross Center for Sustainable Cities –WRI's program dedicated to sustainable cities- helps create accessible, equitable, healthy and resilient urban areas for people, businesses and the environment to thrive. Together with partners, it enables more connected, compact and coordinated cities.

WRI Ross Center was established in 2014 following a \$30.5 million contribution from Stephen M. Ross, chairman and founder of Related Companies and a WRI Board member. It expands the transport and urban development expertise of the EMBARQ network to catalyze innovative solutions in other sectors, including water, buildings, land use and energy, combining the

research excellence of WRI with 15 years of on-the-ground impact through a network of almost 300 experts working from Brazil, China, Ethiopia, India, Indonesia, Mexico and Turkey.

WRI Ross Center focuses on a deep, cross-sector approach in five megacities on three continents, and targeted assistance to 100+ more urban areas, bringing economic, environmental, and social benefits to people in cities around the globe.



ABOUT WRI TURKEY SUSTAINABLE CITIES

Credit: Benoit Colin/WRI

WRI Turkey Sustainable Cities is a part of WRI Ross Center for Sustainable Cities. Started to work in Turkey in 2005 focusing just on the urban transportation under EMBARQ brand. With a brand change from EMBARQ to WRI Turkey Sustainable Cities, it has been providing integrated, sustainable solutions in urban mobility, urban development and energy efficiency in buildings since 2015.

WRI Turkey is a non-profit civil society organization that focuses on practical applications of sustainable urban mobility and development, based on global research and on-the-ground experience. It harnesses the global knowledge from its international network with offices in Brazil, China, Ethiopia, India, Indonesia, and Mexico with the local expertise, and provide tailor-made urban solutions for its partners in cities

and government. Cities designed with these principles in mind can provide safer, healthier, and more fulfilling lives for all their residents. In turn, these cities can reap the social, economic, and environmental benefits of sustainable urban development, transport and public spaces.

2002

WRI establishes EMBARQ program to develop solutions to urban transport challenges.

2005

EMBARQ starts projects in Turkey. These projects include Bus rapid transit (BRT), pedestrianization, cycling, emissions inventory and a conference on sustainable transport.

2012

EMBARQ Turkey starts its operations registered as Sustainable Transportation Association and provides its expertise on urban mobility in Turkish cities.

2015

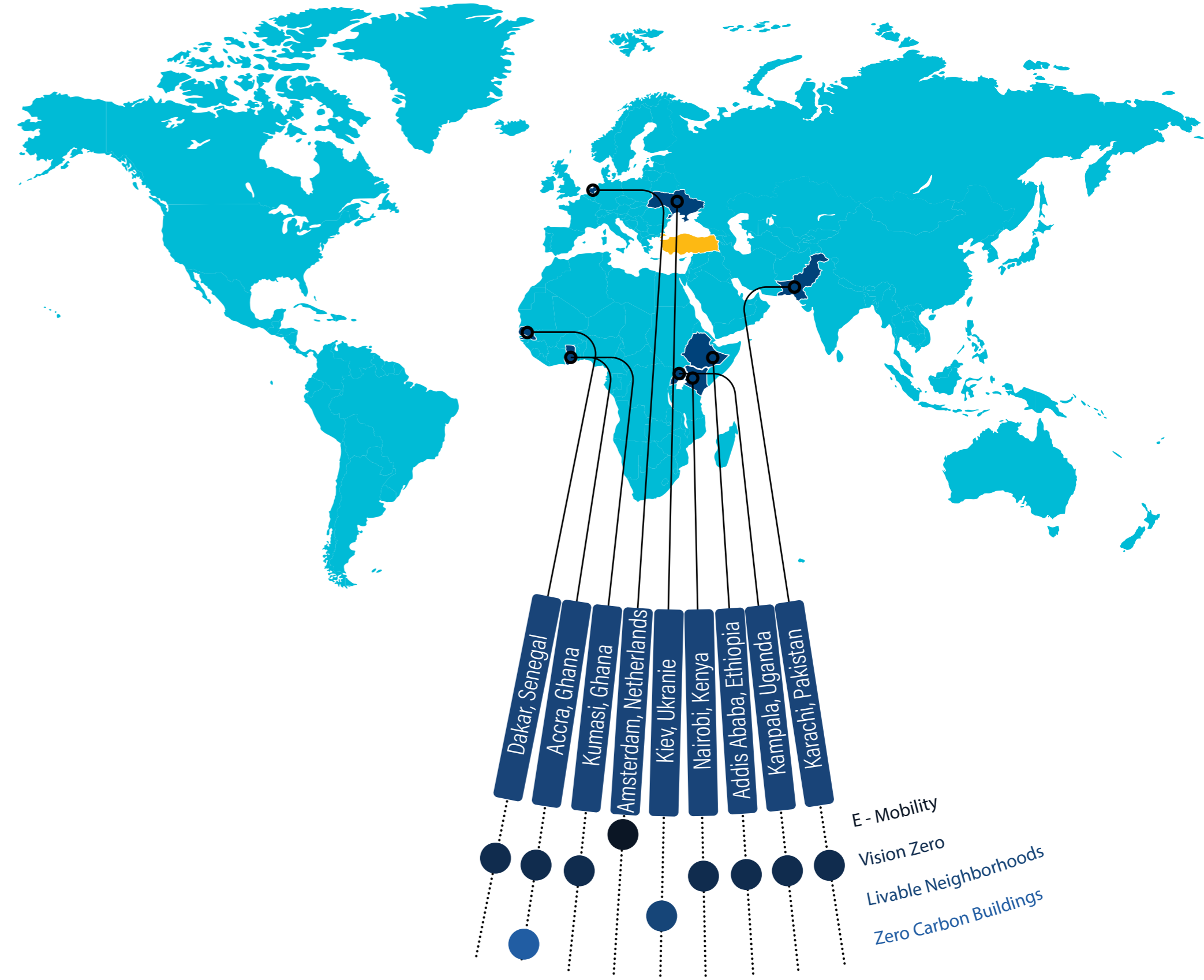
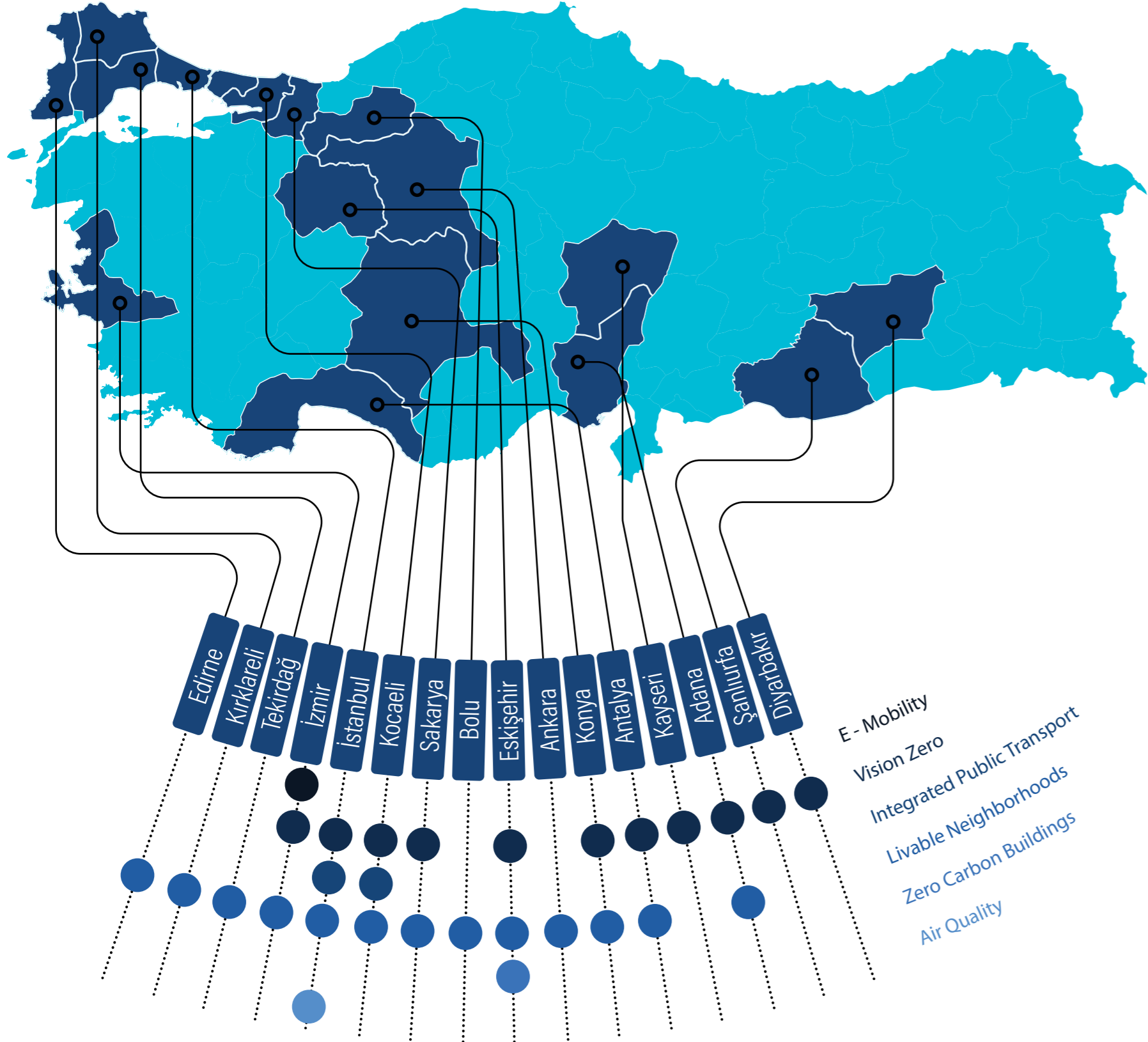
WRI Turkey Sustainable Cities

EMBARQ centers have gone through an institutional change and become country offices of WRI Ross Center for Sustainable Cities.

2016

With the global transition, Turkey office has extended its scope of work and become registered as “Sustainable Transportation and Cities Association” providing expertise in urban efficiency and climate as well.

THE CITIES WE WORK IN



OUR STRATEGY

WRI Ross Center for Sustainable Cities draws on a set of solutions helping cities to develop both holistic and integrated approaches for sustainable urbanization. Those solutions are organized under three main work streams with globally-shared objectives across our network of offices: Urban Mobility, Urban Development, and Urban Efficiency & Climate. To successfully support cities tackling the implementation process of such solutions, WRI Ross Center for Sustainable Cities is also strengthening skills around key drivers for change: Urban Finance, Governance, Multi-stakeholder Engagement, and Capacity Development.

WRI's unique approach positions us to fill the gap between knowledge and practice, creating tangible impact on the ground. We monitor this impact and tap into our network of partners to scale up our successful pilot projects globally. Through a mix of deep engagement, targeted influence, and dissemination of tools and best practices, we turn ideas into action to advance the sustainability of cities worldwide.

Our mission is to assist Cities to make and implement infrastructure choices that:

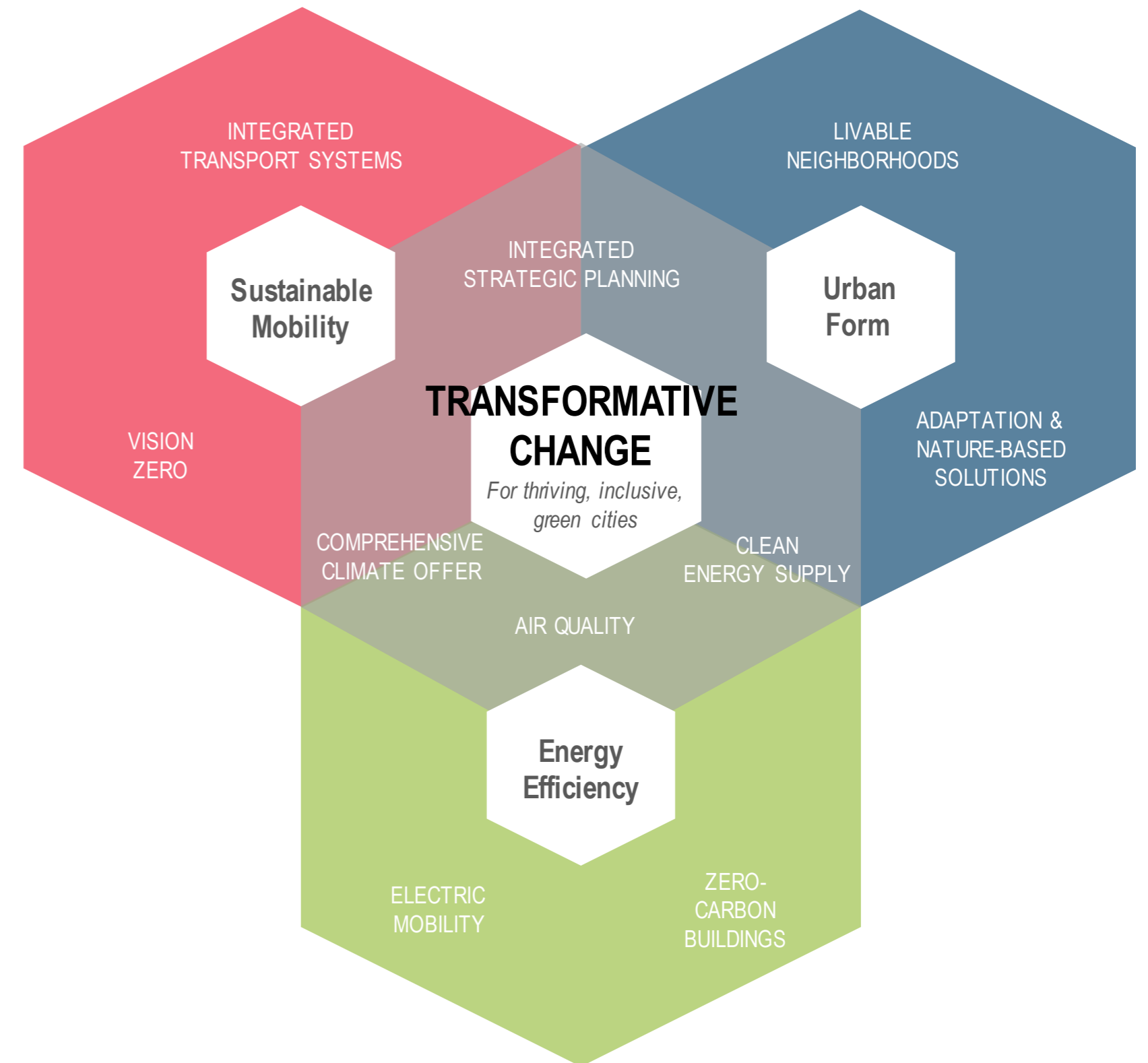


1 Increases equitable access

2 Avoids long term lock-in

3 Reduces environmental impact

4 Increases economic productivity



HIGHLIGHT WORKS

URBAN FORM

- ▶ Livable Neighborhoods

SUSTAINABLE MOBILITY

- ▶ Vision Zero
- ▶ Integrated Public Transport

ENERGY EFFICIENCY

- ▶ Zero Carbon Buildings
- ▶ E-mobility
- ▶ Air Quality

CAPACITY BUILDING PLATFORMS



We have
8
years of experience

We have carried out
36
projects

We have organized
7
symposiums

We worked in
16
cities in Turkey

We worked in
25
cities in total

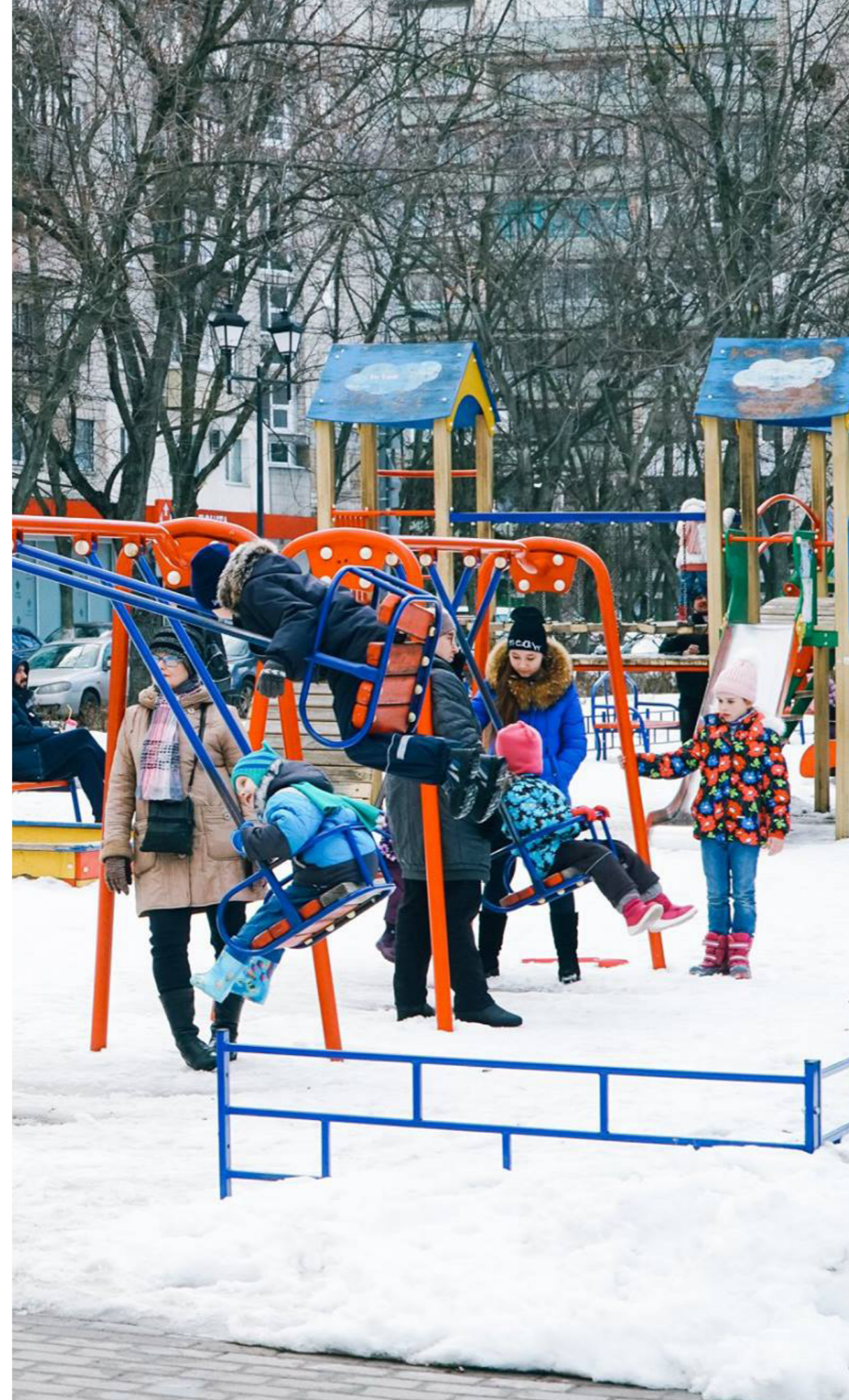
We made an impact on
70
million people

GEVREK

LIVABLE NEIGHBORHOODS

►Urban Form

- 2010 Accessible İstanbul for All - Public Life and Public Space
- 2012 Design Concepts for Safe, Accessible Streets – İstanbul Historical Peninsula
- 2013 Survey Study with Businesses in the Region Pedestrianization of İstanbul's Historical Peninsula
- 2013 SOLUTIONS: Sharing Opportunities for Low Carbon Urban Transportation
- 2014 Current State Assessment of Pedestrianization of İstanbul's Historical Peninsula
- 2017-2018 Case Study: Cumulative Results and Additionality of IFC's Engagement in the city of İzmir
- 2018 A Healthy Neighborhood Project: Road Safety and Accessibility in Rusanivka, Kiev
- 2018 İzmir Metabolic Cycling Network Project
- 2019 UKFCO Ankara Cycling Masterplan
- 2020 İstanbul Parklet Project



A Healthy Neighborhood Project: Road Safety and Accessibility in Rusanivka, Kiev

Beneficiary: Kiev Municipality

Duration: 2018 - Ongoing

Budget: \$77,000

Funding: Bloomberg Philanthropies

Since 2018, WRI Turkey trained 100 city officials and hosted eight participatory workshops to demonstrate the need for new approaches to plan Rusanivka, an island neighborhood of 25,000. The main target is to develop a safe, people-oriented neighborhood through speed limits, intersection improvements, bicycle infrastructure, parking, and public transport. Technical field studies with the city officials also served to prepare an analysis of the Rusanivka Healthy Neighborhood project. The analysis part includes pedestrian, cyclist & traffic, parking data sets, participatory neighborhood meetings and workshops outputs, and surveys. After that, synthesis of the data sets was conducted, and it provided an opportunity for city officials and local citizens to develop conceptual "Healthy Neighborhood Master Plan". According to the conceptual plan, the city designed one of the major roads of Rusanivka in alignment with a healthy neighborhood and a complete street concept. The implementation phase hasn't started yet. During this period, also, the city implemented a city-wide bike-sharing system and one of the stations is based in Rusanivka Neighborhood.

The experience gained in Rusanivka scales up to a Pedestrian Action Plan –with strong links to road safety countermeasures, especially to prioritize vulnerable road users' access and egress- in the whole City of Kiev. The Pedestrian Action Plan is aimed to be integrated into the city's overall accessibility and road safety strategy.

VISION ZERO

► Sustainable Mobility

- 2012 Study on Road Safety and Accessibility of İstanbul BRT
- 2014 Follow-Up Study on Road Safety and Accessibility of İstanbul BRT
- 2014 RSLAB: Road Safety Laboratory for Eskişehir, Antalya, Sakarya, Kocaeli, Kayseri and Konya
- 2015 Study on Road Safety and Accessibility of Şanlıurfa BRT
- 2015-2020 Bloomberg Initiative for Global Road Safety | Addis Ababa, Ethiopia and Accra, Ghana
- 2016 SAFETYLAB: İETT Bus Routes Road Safety Inspection and Safe Driving Training
- 2016 BRT Road Safety Inspection in Addis Ababa, Ethiopia
- 2017 BRT Road Safety Audit in Dakar, Senegal
- 2017 SCHOOLLAB: Road Safety and Accessibility in School Areas A Pilot Study: İzmir Kestelli Şerife Eczacıbaşı Secondary School
- 2018 Road Safety Training for NaMATA in Nairobi, Kenya
- 2018 Mapfre Fundacion Analysis of Road Safety in 5 Turkish Cities
- 2020-2025 Bloomberg Initiative for Global Road Safety BIGRS | Addis Ababa, Ethiopia, Kumasi and Accra, Ghana and Kampala, Uganda



Bloomberg Initiative Global Road Safety BIGRS 2020-2025

Beneficiary: City Administration of Addis Ababa, Accra, Kumasi and Kampala

Duration: 2020-2025

Budget: \$850,000

Funding: Bloomberg Philanthropies

WRI Turkey supports 4 cities (Addis Ababa, Accra, Kumasi and Kampala) in 3 African countries –Ethiopia, Ghana and Uganda) to support scaling up safe streets and mobility work at national and regional levels. WRI Turkey seeks to achieve this goal through its global network and by connecting and drawing on its work in cities to push for stronger national non-legislative policies and strategic frameworks that advance road safety priorities in the broader region.

INTEGRATED PUBLIC TRANSPORT

► Sustainable Mobility

- 2011 Workshop on Improving Cycling as a Transportation Mode in Antalya, Eskişehir and Sakarya
- 2012 BIKELAB: İstanbul Workshop
- 2012 BIKELAB: Konya Workshop on Improving Transportation with Cycling
- 2013 Road Safety Inspection Study in Bike Lanes in Konya and Kayseri
- 2013 CAMPUSLAB: Bicycle Network Planning in İstanbul Technical University Ayazağa Campus
- 2013-2014 BUSLAB Optimization of İETT Bus Fleet Integration with Kadıköy-Kartal Metro (M4) Line
- 2014 "Bikeable City Masterclass" in Copenhagen
- 2014 Safe Cycling Design Manual for İstanbul
- 2015 Cyclist Analysis in Bolu
- 2015 Safe Cycling Design Manual for Trakya Region
- 2015 Civitas Fostering Cycling in Kocaeli via Public Sharing Systems
- 2015 Workshop on Integrating Cycling into Transportation
- 2016 Planning and Designing 9 km Bike Lane in Adana for the Ministry of Environment and Urbanization
- 2016-2017 İzmir History Sustainable Transportation Project
- 2020 İstanbul Intermodal Hubs Integration Project
- 2020 COVID-19 Active Mobility Communication Project



İzmir History Sustainable Transport

Beneficiary: İzmir Metropolitan Municipality

Duration: 2016-2017

Budget: \$107,000

Funding: FIA Foundation & İzmir Metropolitan Municipality

To struggle against a variety of sustainability challenges due to a growing and intense pollution and uncontrolled urbanization, the İzmir Metropolitan Municipality has launched the "Historic İzmir Project" in the historic city center Kemeraltı, covering 250 hectares in 2016. WRI Turkey Sustainable Cities contributed to this project by solidifying residents', visitors' and shop-keepers' connection to the region's history while ensuring that the Historic Kemeraltı is sustainable and livable for all. The main priorities of the project are to increase accessibility and walkability of the historic region Kemeraltı via various solutions including transit-oriented development (TOD), to create sustainable urban neighborhoods, and to increase the quality of public spaces and public life. The project is conducted in two phases. The first phase focuses on the analysis of the current situation and user behaviour through surveys to residents, shopkeepers, and visitors. Then, in the second phase, WRI Turkey developed sustainable transportation strategy specific to the region integrated with public space usage.

ZERO CARBON BUILDINGS

►Energy Efficiency

- 2015 Building Efficiency Accelerator Project Round Table Meeting Livable Cities Symposium 2015
- 2016-2020 United Nations Sustainable Energy for All – Building Efficiency Accelerator Eskişehir
- 2020 Zero Carbon Building for All: from Energy Efficiency to Decarbonization



Building Efficiency Accelerator (BEA) Eskişehir

Beneficiary: Eskişehir Metropolitan Municipality

Duration: 2016 – 2020

Budget: \$274,000

Funding: Global Environment Facility

BEA is a part of global partnership established with the support of United Nations Sustainable Energy for All (SEforALL) initiative and led by WRI Ross Center for Sustainable Cities. The BEA is a public-private collaboration that turns global expertise into action to accelerate local government implementation of building efficiency policies and programs. In 2016, the city of Eskişehir was selected as a deep-dive pilot city within BEA to receive technical support from WRI Turkey in developing action plans, policies, and methodologies, besides awareness raising activities. As a result of the project, Eskişehir Metropolitan Municipality has put into a policy requiring all new municipality buildings to have min. B level in energy efficiency. Furthermore, the city has also established an energy efficiency unit within BEA efforts. Last but not least, Eskişehir is now working on a building retrofit program for municipal buildings to improve energy efficiency. Within the building retrofit program, the municipality prepared a municipal building inventory and determined the main buildings to conduct energy audits. City bus terminal was selected for the first energy audit and the audit was completed in 2019 by an energy audit company with the support of WRI Turkey.

E-MOBILITY

►Energy Efficiency

- 2015-2018 EMPOWER Horizon 2020 Research Project
- 2017 A Market Scan of How New Mobility Trends are Evolving in Turkey
- 2018 Transitioning to a Zero-Emission Transport World through Bus Electrification – Case Studies for İzmir and Amsterdam



Credit: avda-foto / Flickr

Transitioning to a Zero-emission Transport World Through Bus Electrification

Beneficiary: City Administrations and Bus Operators

Duration: 2017-2018

Budget: \$50,000

Funding: BMZ- Federal Ministry of Economic Cooperation and Development (Germany)

WRI Turkey prepared a case study about İzmir and Amsterdam on bus electrification as a part of WRI Ross Center for Sustainable Cities' report identifying the main barriers faced by cities when implementing e-buses, especially in the global south.

The case study is composed of a desktop research and interviews with all the related stakeholders including the municipality of İzmir and Amsterdam to better understand the mobility and public transportation systems, electric bus development processes, steps for further development of the cities. Following also a set of field study in the case study cities, the barriers and benefits of the bus electrification studies of these cities are identified.

AIR QUALITY

►Energy Efficiency



Assessment of The Air Quality Effects of Pedestrianization on İstanbul's Historic Peninsula

Beneficiary: İstanbul Metropolitan Municipality

Duration: 2014 – 2015

Budget: \$94,000

Funding: Bloomberg Philanthropies

Under a series of studies under Historic Peninsula Pedestrianization Project, WRI Turkey also conducted 'Assessment of The Air Quality Effects of Pedestrianization on İstanbul's Historic Peninsula'. Within the scope of the study, the team conducted an impact assessment of pedestrianization on air quality of the region and compared the results with the former study done by Fatih University in 2008 before pedestrianization. NO_x, SO_x, O₃, Ammonia, HCl and HF measurements and CO₂ emission calculation in the region were compared. After the pedestrianization of the area, NO₂ levels in the area decreased by 42%, SO₂ levels decreased by 80%. Besides these calculations, health effects of traffic-related emissions and a set of recommendations regarding potential interventions for further improvements were also explained in the project report.

CAPACITY BUILDING

- 2016 Training on Cycling as a Transportation for 200 Technical Staff Working for Provincial Directorates of the Ministry of the Environment and Urbanization
- 2018 Energy Efficiency Training for Municipalities
- 2019-2020 Get Turkey Cycling

Livable Cities Symposium

Seminars

Stakeholder Meetings

Trainings

Webinars

Workshops

Conferences



Get Turkey Cycling

Beneficiary: İzmir Metropolitan Municipality, Eskişehir Metropolitan Municipality and Lüleburgaz Municipality

Duration: April 2019-June 2020

Budget: \$196,000

Funding: Civil Society Support Programme II financed by European Union

With Get Turkey Cycling Project, WRI Turkey aims to build the capacity of the municipalities and cycling related NGOs in developing and implementing communication campaigns. To do so, WRI Turkey has developed a field study in Netherlands with Dutch Cycling Embassy, the project partner, to examine the best practices in Netherlands. The field study was followed by two-day strategic communication trainings in İzmir, Eskişehir and Lüleburgaz . The trainings attended mainly by the municipality and local NGO representatives were concluded with a workshop to develop a campaign idea and action plan. Then, each municipality received online mentoring for minimum 2 months from WRI Turkey in campaign design process. By March 2020, each city had their campaigns ready to launch. The project not only aims at increasing cycling in the pilot cities via active communication campaigns, but it also aims at reinforcing the cross-sectoral collaboration culture by bringing together stakeholders such as municipality, local NGOs, and representatives from central administration such as the Ministry of Environment and Urbanization, İlbank (Turkey's Bank of Provinces) and Turkish Union of Municipalities.

PLATFORMS



KAVŞAK – Sustainable Urban Transport Network Turkey

Duration: February 2020-February 2024

Budget: \$560,000

Funding: Civil Society Facility and Media – Support to Civil Society Networks and Platforms Programme Financed by European Union

WRI Turkey carries out “Sustainable Urban Transport Network – Turkey” project aims to establish an efficient sustainable urban transport network with its wide variety of stakeholders to create a greater impact on policy-making, democratic governance, and social change to enable more democratic civil society in Turkey in partnership with Active Living Association, UCLG-MEWA, UITP and YADA Foundation.

Main activities of the project are categorized under three main areas, which are strengthening the capacity in the field of sustainable urban transport by establishing a Network called Kavşak, providing opportunity to develop cooperation at national and international level, and participation in policy making processes via monitoring and commenting on the Acquis Communautaire on sustainable urban transport and developing Sustainable Urban Transport Action Plan and White Paper.

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