

HATKO RECYCLED RUBBER NOISE BARRIERS

Mr. Nejan HATKO
General Manager

Hosted by

innovative
noise **control**

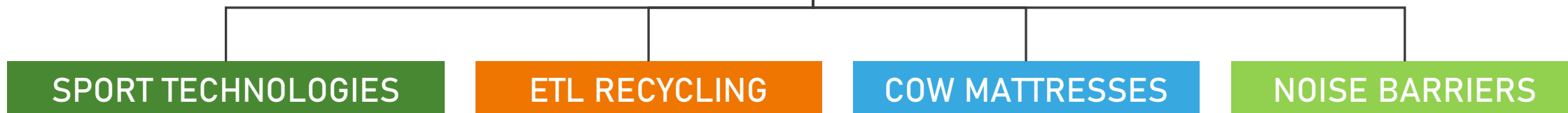
HATKO Group Companies

Founded
1985

Workforce over
150 employees

Exports
105 countries

HATKO Group Companies

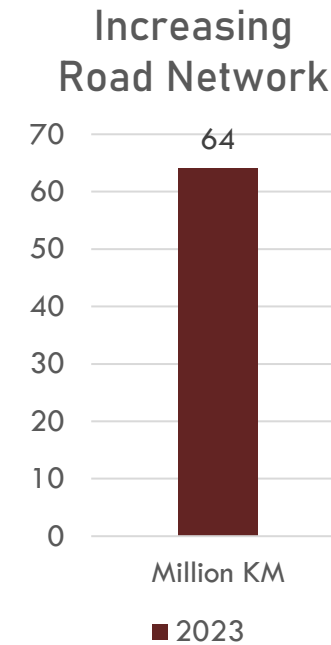
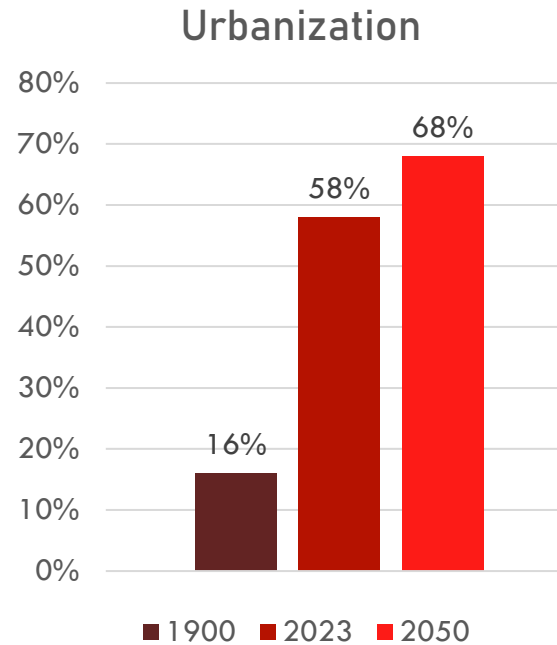
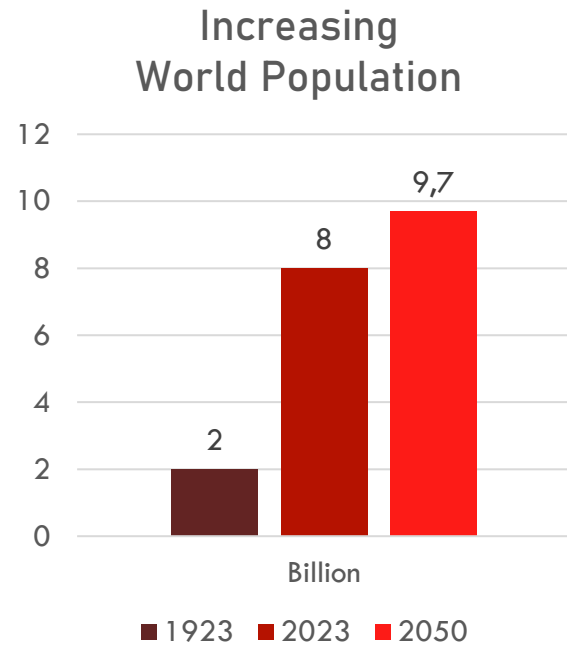


Global Challenges for Next Decades

- Natural resources of the planet are fast depleting
- Sustainability
- Recycle , Upcycle, Downcycle

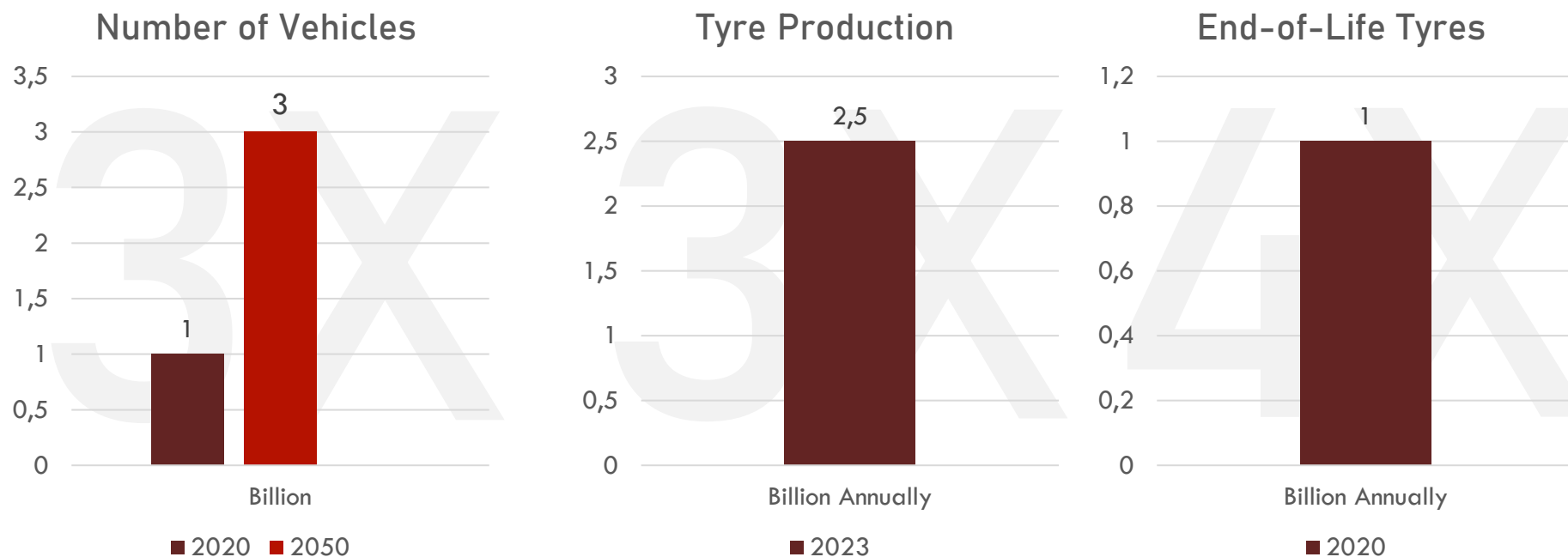


Cause and Effect - Urbanization



Source: UN World Urbanization Prospects

Cause and Effect - Urbanization



Source: UN World Urbanization Prospects

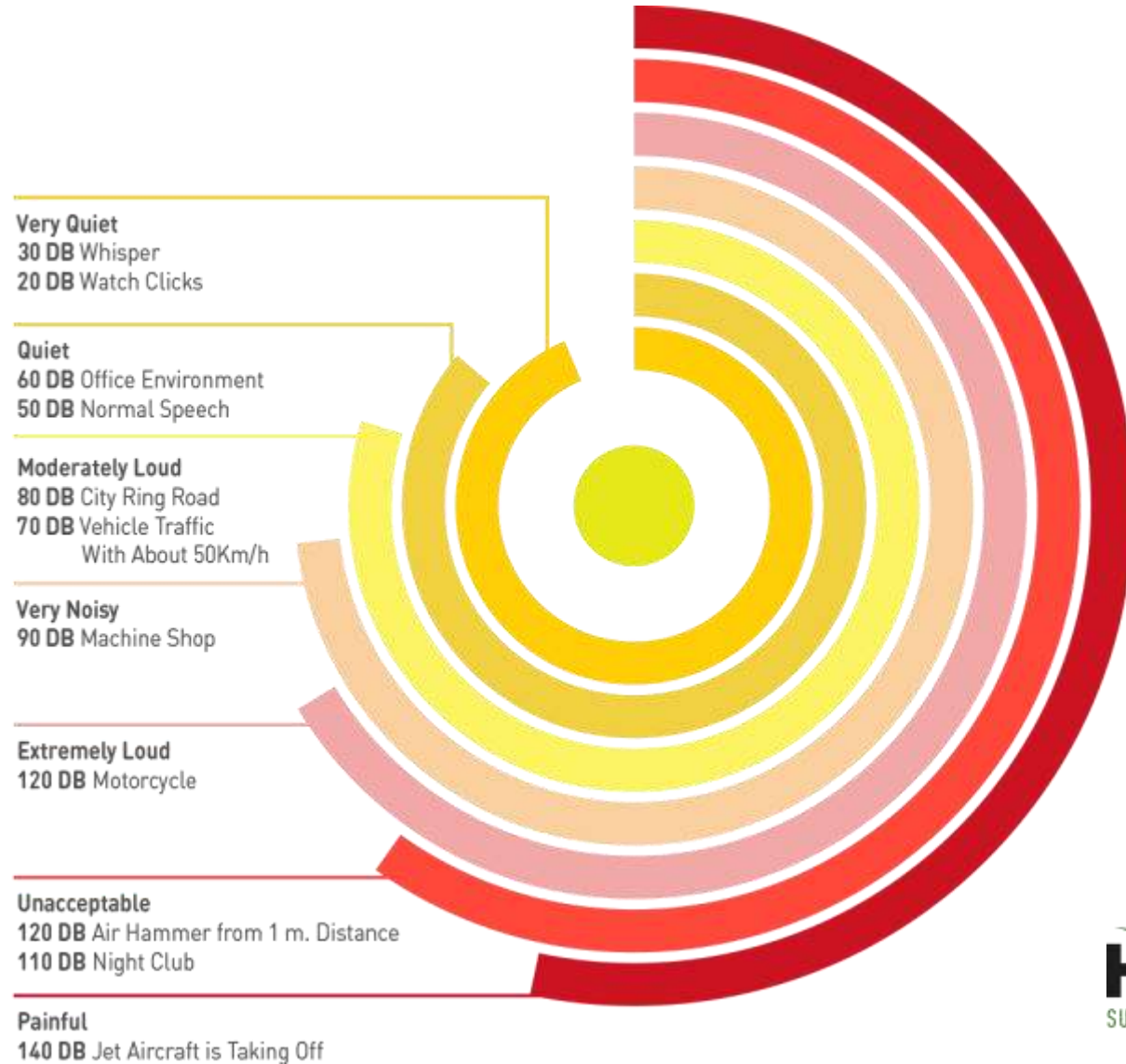
Cause and Effect - Noise Pollution

In the EU, noise pollution affects one in five citizens and leads to 12,000 premature deaths every year.



Cause and Effect - Highway Noise

One of the most important sources of noise is traffic noise.



Cause and Effect - Tyres

Majority of the highway noise is caused by the contact of the tyres with the road.



Cause and Effect – Road Debris

Discarded tyres
jeopardizing
road safety



Turning Problem into Opportunity

- Billions filling landfills
- Causing health threatening noise levels
- Jeopardizing road security



Hatko Sound Barriers

- Using End Of Life Tyres (ETL)
- Certified by EPD



Circular Economy with Recyclability

LINEAR ECONOMY



CIRCULAR ECONOMY



Car Tyres to Sound Barriers

≈ 60 Kg of ETL

1 m² of Sound Barrier



EPD Report

One of the lowest carbon emissions in the industry

Primary Material Production	kg CO ₂ e / tonnes
Concrete	131,76
Metals	3.975,82
Bricks	241,76
Glass	1.402,77
Metal: aluminium cans and foil (excl. forming)	9.122,64

* The Materials are made from virgin stock kg CO₂e per tonnes

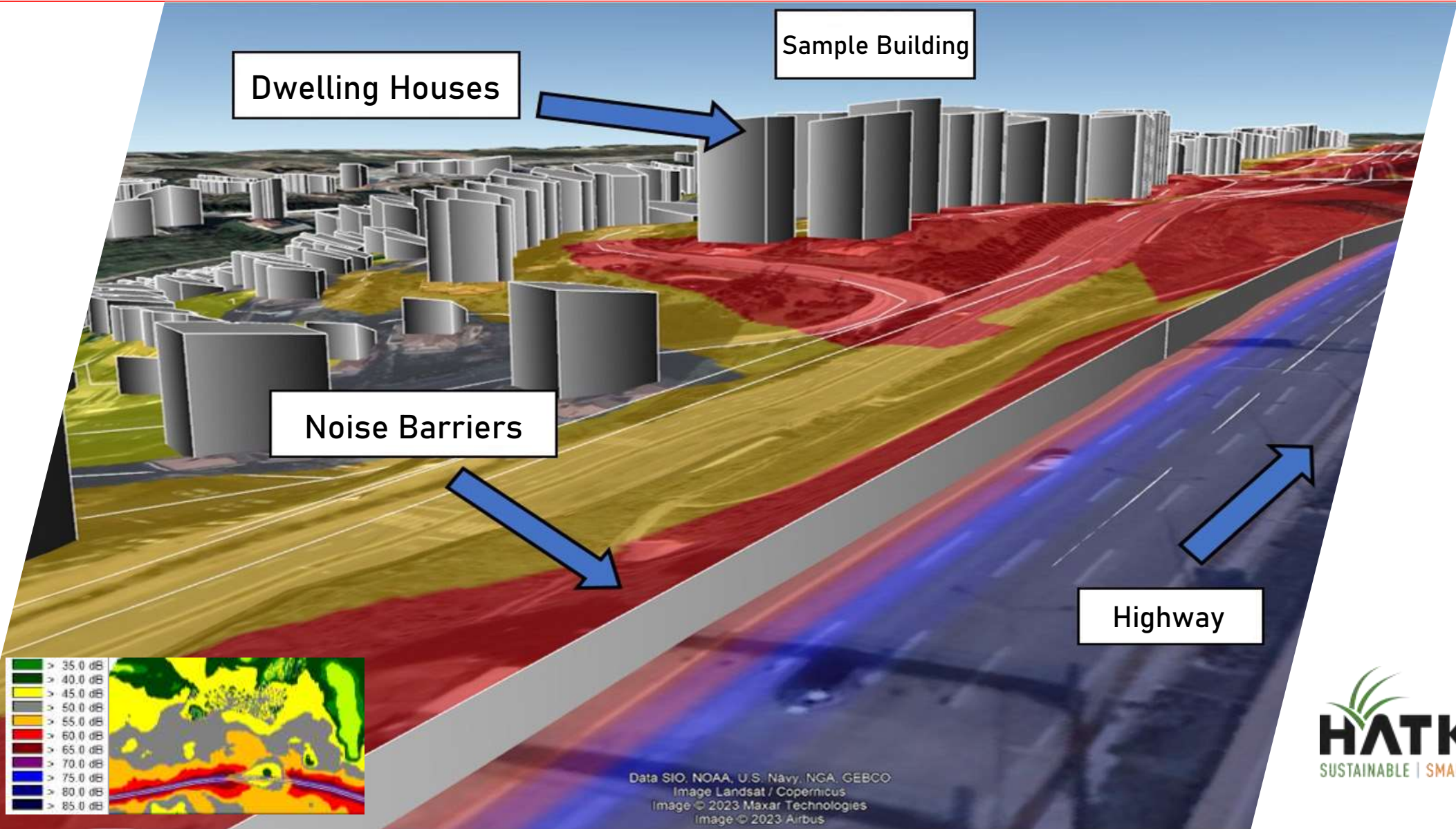


HATKO Solar Panels

- 100% renewable electrical energy
- 550 tons of CO₂ emission eliminated annually
- Equivalent to approx. 30,000 mature trees



Project Planning

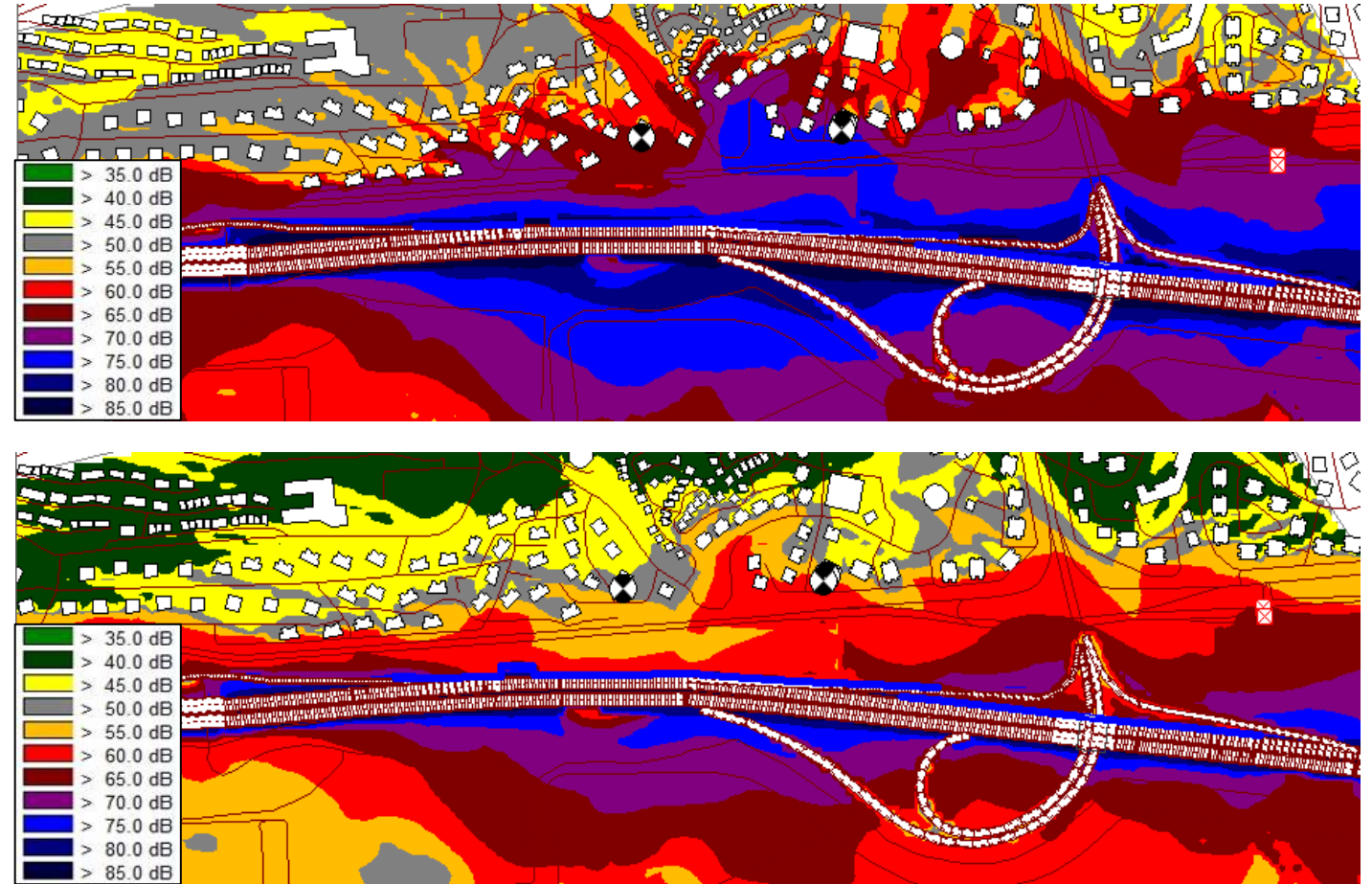


Installation



End of Project Report

Before Hatko Sound Barriers		After Hatko Sound Barriers		Hatko Sound Barriers Effect	
Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)
64,2	61,1	56,6	53	7,6	8,1
66,5	60,5	58,6	53,3	7,9	7,2



Maintenance-free and climate resistant (Hot/Cold, Stone Impact, Flexibility, ETC.)

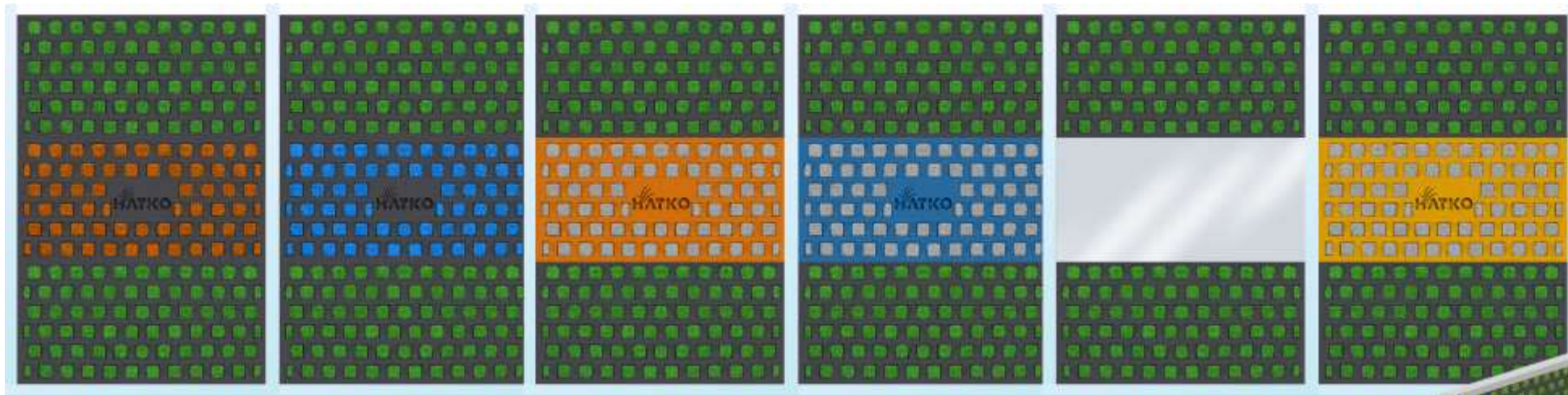


A New Aesthetic Approach Using Synthetic Turf

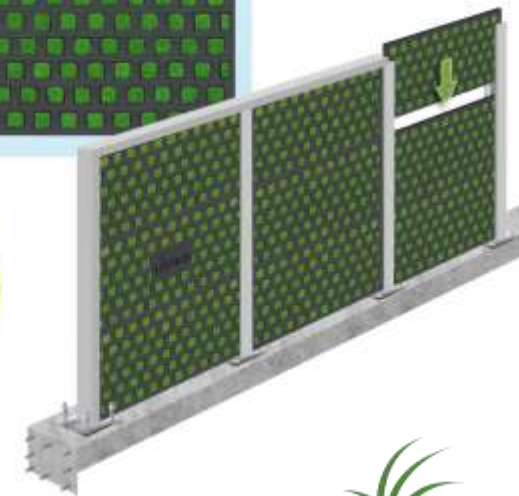


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Custom color and logo applications



Special Pattern Weaving



Completed Projects



YSS BRIDGE AND NORTHERN RING MOTORWAY

Completed Projects



NORTHERN MARMARA MOTORWAY (KMO)

Completed Projects



1915 ÇANAKKALE BRIDGE NOISE BARRIER PROJECT

Completed Projects



ÇEKMEKÖY MUNICIPALITY

Completed Projects



GAZIANTEP MUNICIPALITY BRIDGE NOISE BARRIER

Completed Projects



25 DECEMBER PANORAMA MUSEUM NOISE BARRIER



Completed Projects



PARK AZUR IN BODRUM

Completed Projects



RIVA MANSIONS



THANK YOU

Mr. Nejan HATKO

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