



GÜRÜLTÜ EĞİTİM PROJESİ ÇALIŞTAYI

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ÇEVRESEL GÜRÜLTÜ EĞİTİMLERİNDE SANAL GÜRÜLTÜ DENETİM ARACI

Antalya Çevre ve Şehircilik İl Müdürlüğü
11 Ekim 2019



ANTALYA VALİLİĞİ
ÇEVRE VE ŞEHİRCİLİK
İL MÜDÜRLÜĞÜ



UNIVERSITÀ
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Ingegneria

IMPROVEMENT OF ENVIRONMENTAL
NOISE
MANAGEMENT
SKILLS IN AUDITS



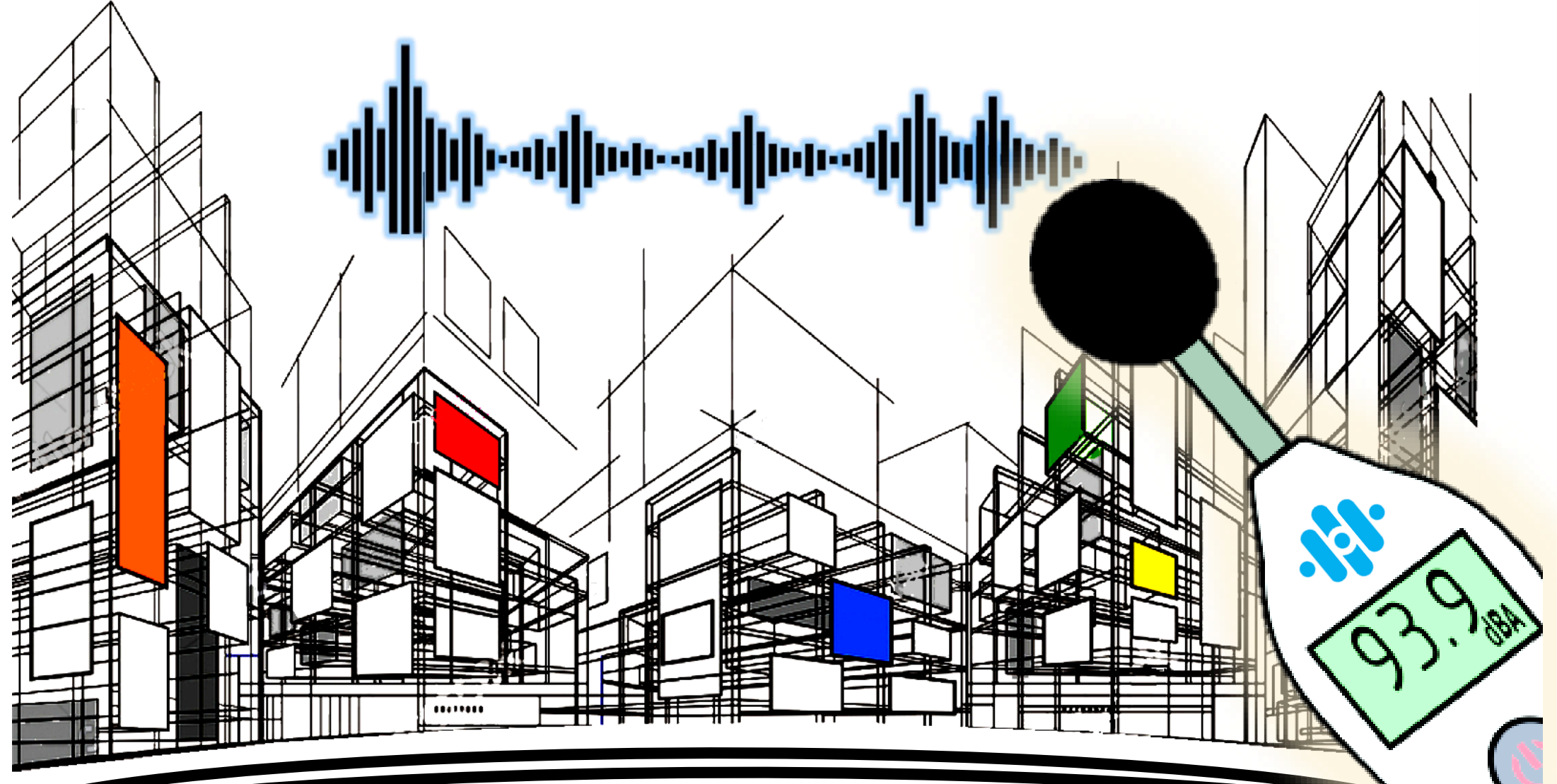


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Sanal Gürültü Denetim Aracı



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Çevresel gürültü eğitim programlarında «gürültü denetim» konusunun öğrencilere daha iyi ve etkili şekilde öğretilmesine yardımcı bir araç geliştirmektedir.





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Öğrenme Hedefleri



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Senaryonun tanımlanması

SANAL LAB



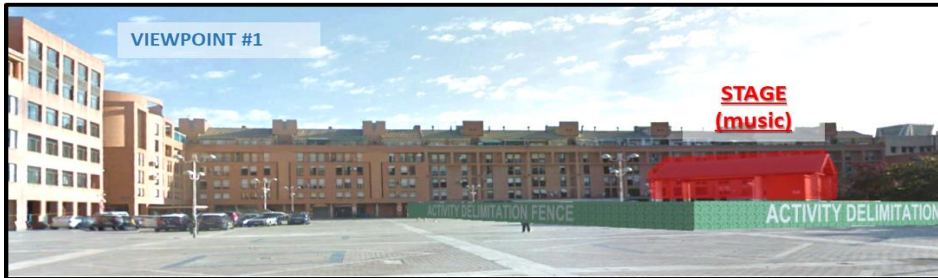
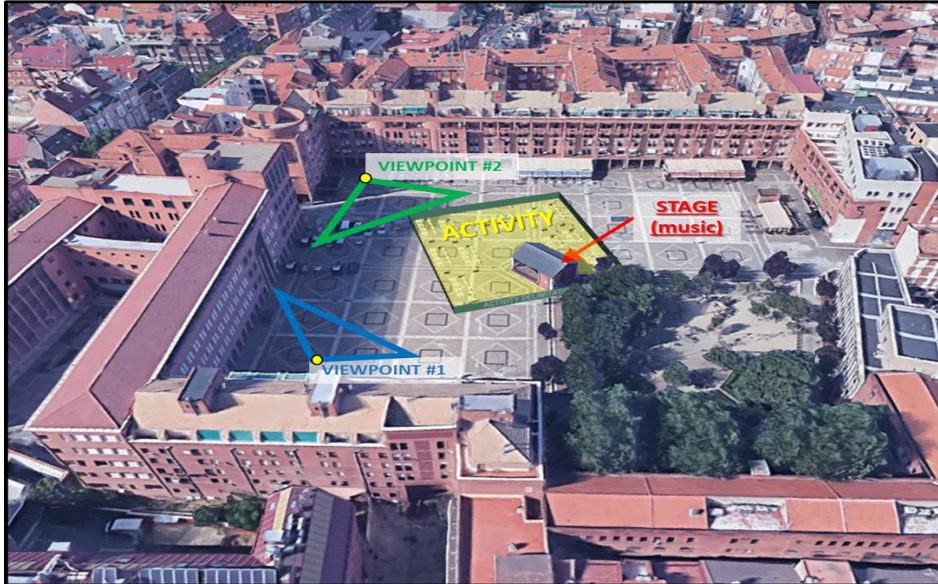
Sanal veri sağlanacak.

Beklenen hedef





Planlama: İlk Senaryo tanımlaması



VIRTUAL NOISE AUDIT

IMPROVEMENT OF ENVIRONMENTAL NOISE MANAGEMENT SKILLS IN AUDITS

ACTIVITY DETAILS

- City: You decide
- Activity: Bar / cafe outdoors
- Music allowance: Activity was audited, license was granted
- Started September 2014
- Opening hours: 20:00 – 02:00
- Scenario.kmz (Google Earth)

NOISE DETAILS

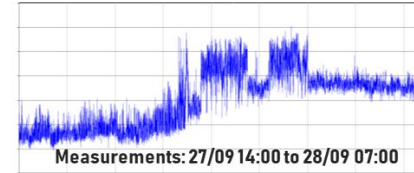
- Main activity's noise source:
 - Music
- Background noise sources:
 - Road traffic outside the square
 - Any other not specified

AUDIT SCOPE

Recreational activity with music allowance granted. Residents of this square have been complaining about the activity:

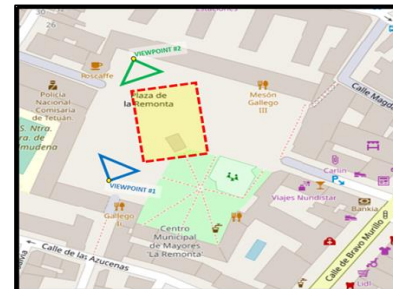
- They claim that the closing hours are not being complied with.
- They claim that music is very loud.

The goal of this audit is to check if the activity complies with the regulation (in your country, your city... you decide)



MEASUREMENTS AVAILABLE

- Sound recordings and B&K Evaluator files available (1 location only, for reference)
- Continuous 1 second duration measurements
- 1/3 octave bands measurements available (L_{Zeq})
- Averaging time: on request (minimum 1 second)
- Frequency weighting available: Z, A, C
- Time weighting available: Fast, impulse, peak
- Measurement locations outdoors: On request (just provide coordinates and height)
- Locations indoors:
 - On request (just provide coordinates and floor)
 - Indicate: Windows open - closed



* This is a virtual scenario, artificially generated to meet the objectives of the training activity. The sounds and measurements are not real.

Planlama: İlk senaryo için özel durumlar



Eğlence yeri gürültüsü (Projenin temel odaRecreational noise



Basit bir senaryo (Uygulaması ve anlaşılması kolay)



Gerçek bir duruma dayalıdır.(Gerçek denetimden elde edilen veriler)



Dışarıda gürültü kaynakları



Temel gürültü kaynağı: Müzik aktivitesi



Farklı gürültü aşamaları mevcut



Sadece bir ana gürültü kaynağı mevcut, geri kalanı arka plan gürültüsü



Faaliyet: Müzik izni olan bir eğlence yeri



Meydanda oturan sakinlerden gürültü şikayeti mevcut



Planlama: Veri mevcudiyeti (Sanal lab çıktıları)



Any time interval from 14:00 to 07:00 (next day)



Minimum averaging time: 1 second



Any indoor or outdoor location in the square



L_{Aeq} , L_{ACeq} (A or C-weighted dB) and L_{Alep} (Impulse, A-weighted dB)




1/3 octave band, L_{Zeq} and L_{Zmin} (Z-weighted dB)



L_{FAmin} , L_{FAMax} (fast, A-weighted dB)



L_{Cpeak} (peak, C-weighted dB)



VIRTUAL NOISE AUDIT | Noise measurement requests

The Virtual Noise Audit Coordinator (VNAC) will provide each participant the set of measurements they request according to their requirements. The measurement locations, duration, and setup will be specified in this form by each participant independently.

Participant info

E-mail

Name

General information:

This is general information available for all the participants through Google Drive or WeTransfer

We will provide you all these files, as a reference to have very detailed information about the virtual scenario. This is general information, not customized for every measurement location. If you need further information, just let us know

- Scenario description (*.PDF)
- Audio files (*.wav)
- B&K Evaluator file (*.RLP)
- Google Earth file (*.KMZ)

Measurement setup

Please, indicate the type of measurements you will use in your audit. This information will be provided by the VNAC according to your customization requirements

Measurement file

The VNAC will send you an Excel file with all the information you request. For each measurement location and every period of time you decide, the excel file will show a time history in time intervals as defined by your averaging time.

L_{Aeq} (A-weighted dB) Sí No

L_{Ceq} (C-weighted dB) Sí No

L_AI_{eq} (Impulse, A-weighted dB) Sí No

L_FA_{max} (fast, A-weighted dB) Sí No

L_FA_{min} (fast, A-weighted dB) Sí No

L_Cpeak (peak, C-weighted dB) Sí No

1/3 octave band measurements, L_Zeq (Z-weighted dB) Sí No

Averaging time (seconds)

Measurement request

We will provide you as many measurements as you request, just specify the location (coordinates) and the floor (outdoor measurements) or height (indoor measurements). The minimum averaging time we can provide is 1 second. Depending on your measurement procedure, you can request longer duration (5 seconds, 1 minute, 5 minutes...), or you can use this 1 second measurement to perform your own processing on this. The averaging time you specify will determine the number of measurements you receive within the specified time interval. Every measurement will be a different row in an Excel sheet. If you need more than 4 locations, or periods, use this form more than once.

Location 1

1. Latitude 1. Longitude 1. Height

1. Start time 1. End time 1. Floor

1. Type of measurement Outdoor measurement (any location)
 Facade measurement (any location)
 Indoor measurement, open window (centre of the room)
 Indoor measurement, closed window (centre of the room)

Location 2

2. Latitude 2. Longitude 2. Height

2. Start time 2. End time 2. Floor

2. Type of measurement Outdoor measurement (any location)
 Facade measurement (any location)
 Indoor measurement, open window (centre of the room)
 Indoor measurement, closed window (centre of the room)

Location 3

3. Latitude 3. Longitude 3. Height

3. Start time 3. End time 3. Floor

3. Type of measurement Outdoor measurement (any location)
 Facade measurement (any location)
 Indoor measurement, open window (centre of the room)
 Indoor measurement, closed window (centre of the room)

Location 4

4. Latitude 4. Longitude 4. Height

4. Start time 4. End time 4. Floor

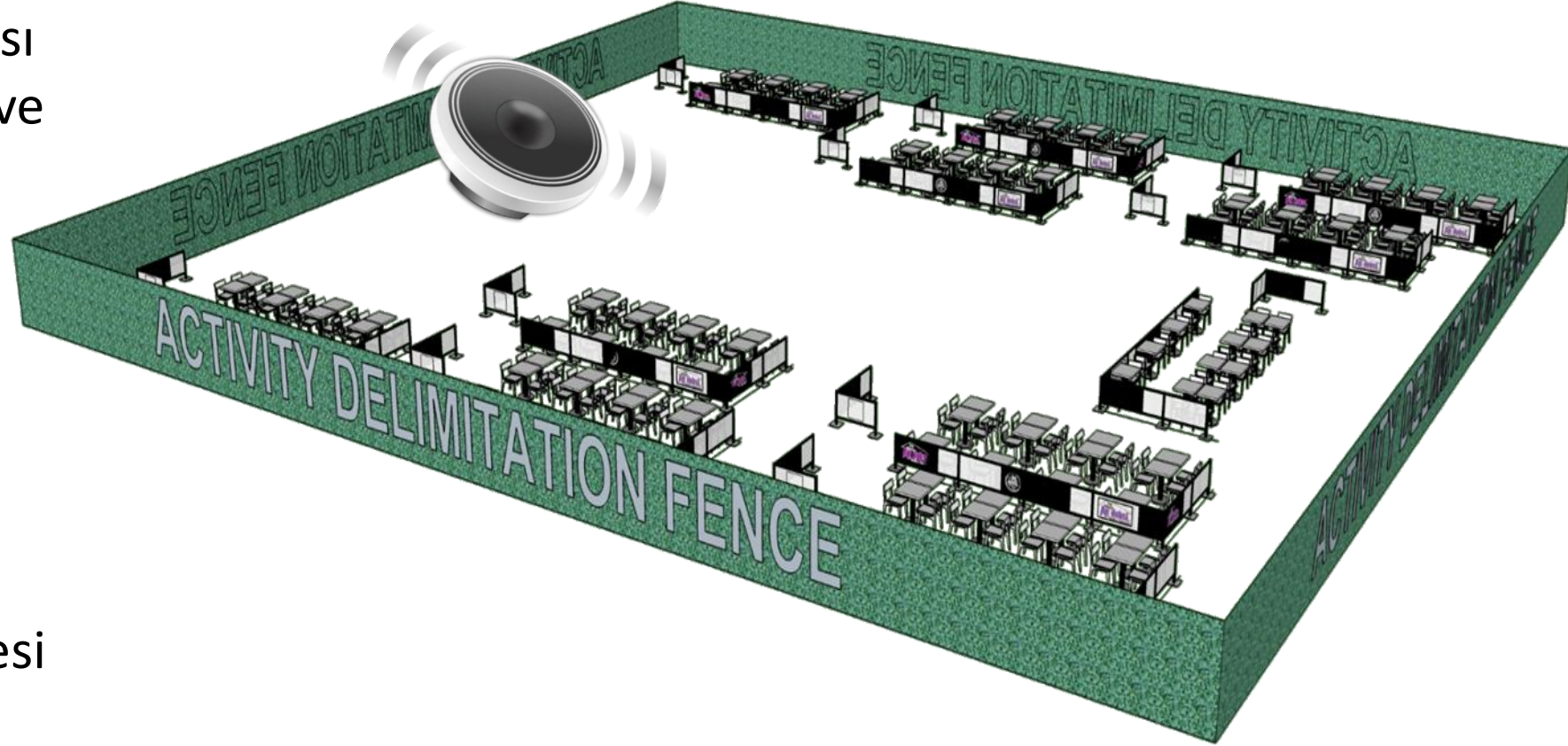
4. Type of measurement Outdoor measurement (any location)
 Facade measurement (any location)
 Indoor measurement, open window (centre of the room)
 Indoor measurement, closed window (centre of the room)

After your virtual audit, you will have to report your results. Assume that this new activity started to work in January 2019, and this is a residential area.



Raporlama

- Senaryonun mevcut durumdaki solası sınırlılıklarının ve varsayımların tanımlanması
- Sanal lab dan teknik verilerin talep edilmesi
- Gürültü şikayetinin değerlendirilmesi ne yönelik denetim raporunun hazırlanması





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Raporlama



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- Ölçüm sonuçlarının değerlendirilmesi**
- Limit değerler**
- Yasalara uygunluk**



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Sanal gürültü denetim aracının diğer kullanım amacı



AKADEMİSYENLER

ÖĞRENCİLER

UZMANLAR

SAHADA
UYGULAYICILAR





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<https://www.noise-training.eu>



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The video player displays a promotional slide for the 'Virtual Noise Audits' project. The slide features the title 'Virtual Noise Audits' in a large blue box. Above it, the text 'NOISE TRAINING PROJECT' and 'www.noise-training.eu' are visible. The email address 'erasmusplusnoise@gmail.com' is also present. On the right side, there is an illustration of a man and a woman in business attire, with the text 'IMPROVE YOUR ENVIRONMENTAL NOISE MANAGEMENT SKILLS IN AUDITS' next to them. The bottom of the slide includes logos for 'ANTALYA VALİLİĞİ ÇEVRE VE ŞEHİRCİLİK İL MÜDÜRLÜĞÜ', 'POLITECNICA', 'UNIVERSITÀ DEGLI STUDI FIRENZE', and 'Vie en.ro.se. Ingegneria'. A progress bar at the bottom left shows the video is at 00:11 of 04:46.

Detaylı bilgi için



<https://app.vyond.com/videos/0d02e9a3-691b-46f5-9b9b-7b79ca0d339d>