

The Opportunities of AI in Broadcasting

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INFORMATION TECHNOLOGIES DEPARTMENT
ABU ISTANBUL / OCT 2024



Projects

It Department

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IT Department

The Information Technology Department in managing TRT's infrastructure, enhancing digital security, and driving innovation through AI and other emerging technologies.





Network Infrastructure Management

Our IT departments in Ankara and Istanbul work in close coordination to manage TRT's internet connectivity and ensure seamless network operations for 22 domestic locations and five international offices. This involves the planning, provisioning, installation, and maintenance of network connections across the organization. Our efforts include expanding wireless network capabilities with over 800 wireless access points, and managing more than 10,000 data connections. We also operate over 400 network switching and routing devices.





Data Center Operations and IT Infrastructure Management

The TRT Data Center manages and maintains crucial IT infrastructure, including servers, storage units, backup systems, load balancers, firewalls, email services, and Active Directory. Our team oversees a server pool of over 350 servers, meeting the operational needs of various units within the organization. Additionally, we handle user account management, email provisioning, patch distribution, and reporting.



Database Management

The centralized management of TRT's databases, including MSSQL, Oracle, and PostgreSQL systems, ensures the security and regular backups of critical data. These databases serve as the foundation for the software solutions critical to TRT's operations, and their reliability and security are of utmost importance.





Broadcast Systems and IT Integration

Our department coordinates the integration of broadcast systems with TRT's IT networks, managing access permissions and ensuring that these systems operate seamlessly. We also manage the cloud-hosted systems on the Microsoft Azure platform, ensuring their continuous availability and performance.





Information Security; Ensuring a Secure Digital Landscape

The TRT Information Security Department is committed to the protection and management of all digital assets, including websites, mobile applications, servers, and end-user devices. We conduct periodic vulnerability assessments and penetration tests, ensuring that any identified risks are promptly managed. The department monitors file movements, security logs, and running processes in real-time through security solutions to detect anomalies, while complying with relevant legal regulations, logging and preserving all data accordingly.





Broadcast Software Solutions

For years, TRT has developed and uses radio automation systems (e-radyo) and television broadcast planning software (e-televizyon) to support its broadcast operations. These systems ensure the smooth execution of radio and TV programs. Moreover, TRT manages systems that record and monitor satellite returns for tracking broadcast content 24/7. We also develop and maintain specialized software for significant national events, such as local and general elections, as well as the Ramadan timetable, using advanced tools like VizRT for automated graphics scene production.





Exploring New Technologies: Artificial Intelligence at TRT (Ai Helpdesk)

TRT's Information Technology Department is at the forefront of exploring and implementing artificial intelligence (AI) solutions across the organization. In May, we launched an AI-powered help desk application that provides 24/7 support for users. This system enhances the user experience by offering real-time solutions for common queries and issues.





Exploring New Technologies: Artificial Intelligence at TRT (Talk2 TRT)

We have successfully implemented "Talk2," an AI-driven multilingual translation application, which was used during the "12 Point" event. This tool translates across 41 languages into 51 different target languages and will be applied to future events as well. Furthermore, our research and development efforts continue as we explore other areas where AI can improve TRT's broadcasting systems.

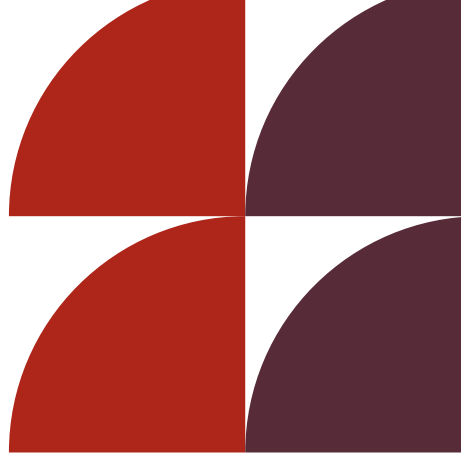
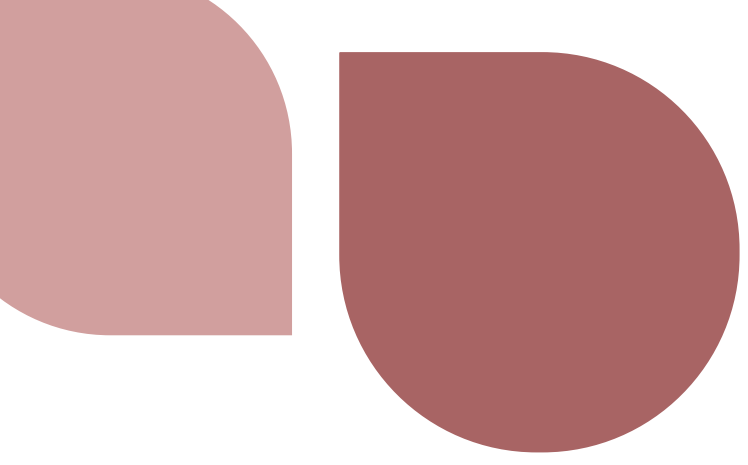




Future of AI in Broadcasting

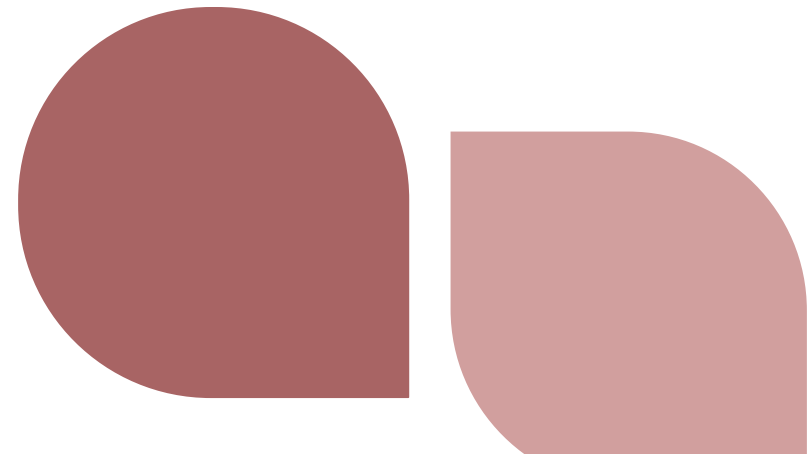
Our ongoing research focuses on integrating AI into various aspects of our broadcast systems, with the aim of improving efficiency and content management. As we adopt new technologies, we remain committed to enhancing TRT's operations and supporting the evolving needs of the broadcasting industry.





Ai Helpdesk

Our goal is to develop a system trained with AI data to automatically resolve a portion of the requests directed to the help desk. In this way, we aim to ensure the uninterrupted operation of our services 24/7, while also planning to create an AI-powered solution center. By training our datasets in various desired fields, we intend to expand these solutions to a broader scope, thereby enhancing our service quality. We believe that this approach will make our customer service more efficient and effective. Released at May, 2024, reached more tgab 900 users.



Ai Helpdesk

RT

How can I connect to a VPN?

03/10/2024 09:20



Hello! To connect to the VPN, please follow these steps:

1. Ensure you have SSL-VPN authorization. If you do not have SSL-VPN authorization, you need to send the SSL-VPN Request Form to the Information Technology Department via EBYS. You will be notified by email once your SSL-VPN access is granted.
2. If you have SSL-VPN authorization:
 - Open your web browser and go to sslvpn.trt.net.tr.
 - Enter your username and password.
 - Download the package suitable for your computer's operating system.
 - Run the downloaded package with local administrator privileges.
 - Enter the portal address as sslvpn.trt.net.tr and click the Connect button.
 - Enter your username and password and click the Sign In button.
 - You will know your connection is successful when you see the "Connected" window.
3. If you do not have local administrator privileges:
 - Type "Software Center" in the Windows search bar.
 - In the Applications section, click on GlobalProtect VPN and download the application.
 - Once successfully installed, open the application by typing GlobalProtect in the search bar.
 - Enter the portal address as sslvpn.trt.net.tr and click the Connect button.
 - Enter your username and password and click the Sign In button.
 - You will know your connection is successful when you see the "Connected" window.

If you encounter any issues, please let me know, and I will be happy to assist you! Additionally, you can access the installation documents from the Announcements section at <https://kurumsal.trt.net.tr/Sayfalar/default.aspx>.

03/10/2024 09:20



03/10/2024 09:20

RT

I forget my password

03/10/2024 09:21



Hello, if you have forgotten your password, you can reset it by following these steps:

1. Go to <https://sifre.trt.net.tr/sifresifirlama.aspx>.
2. Enter your username (without @trt.net.tr).
3. Enter your mobile phone number (in the format 905.....).
4. Click on the "Doğrulama kodu gönder" (Send verification code) button.
5. Enter the verification code sent to your mobile phone in the designated field on the website.
6. Click on the "Otomatik şifre oluştur" (Generate automatic password) button to create a new password.

If you encounter any issues during this process, please let me know!

03/10/2024 09:21





Event Manager

At the 12 Punto event to be organized by TRT, it is intended to provide participants with information about the symposium and offer real-time translation during the sessions, based on the participants' preferences. This system is also considered to be used in other events attended by international guests. With this innovative approach, the goal is to set a standard for future events. This translation emphasizes the intent to enhance communication and accessibility during international events.



LIVE SESSIONS

DAY

123456

DAY

2

Saturday, October 19, 2024

2:00 PM - 5:00 PM

ABU2024

Sports Group Conference

GO TO THE SESSION

9:00 AM - 12:00 PM

ABU2024

Sports Committee Meeting

7:00 PM - 8:00 PM

ABU2024

Meeting of the Presidency

9:00 AM - 5:00 PM

ABU2024

Technical Committee Meeting (TB Members Only)

9:00 AM - 5:00 PM

ABU2024

Programme Committee Meeting

talk2

TRT Bilgi Teknolojileri Dairesi Başkanlığı

TRANSLATION

Language Selection

Turkish

Translation has not been started yet.

talk2

TRT Bilgi Teknolojileri Dairesi Başkanlığı



Subtitle Factory (Katip)

In the digital communication world, the obligation to provide access for individuals who are hearing-impaired or speak a different language is steadily increasing. In this context, the proposed system, aimed at accelerating and enhancing subtitle creation processes, has been evaluated as a solution that can offer automatic (filtered) and editable options, along with approval workflows. The integration of AI-powered subtitle generation is vital to ensure inclusivity and accessibility for all audiences

Hoşgeldiniz, Mehmet Tarık KIRŞANLI

Yeni Video Gönder!

DOSYA

DURUM

İŞLEMLER

s06-09-2

Erdoğan

s11-09-2

TAMAMLANDI

TAMAMLANDI

TAMAMLANDI



Yeni Video Gönder

Büyük boyutlu dosyaların yüklenmesi bağlantı kalitenize, hızınıza vb. bağlıdır. Bundan dolayı dosyanın aktarılması uzun sürebilir.

Kaynak Dili Seç
Türkçe

Videoyu buraya sürükleyebilirsiniz

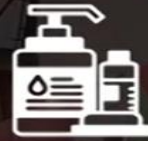
KAYDET

TRT HABER

GAZZE'YE YAPILAN İNSANİ YARDIMLAR



3 bin 171 ton
içme suyu



239 bin 678
hijyen seti



23 bin 467 ton
gıda



80 bin 501 barınma
malzemesi



245 ton tıbbi
malzeme



424 bin 692
giyecek



79 bin 418
battaniye

23 bin tonu aşan gıda ve yaklaşık 81
bin barınma malzemesi gönderildi.

Dünyaya baktığımızda Gazze'ye en

fazla insani yardım ulaştırın
ülke pozisyondayız.

Şu ana kadar 13 askeri uçak,
12 gemi, toplam yaklaşık 60 bin

ton insani yardım malzemesini
Gazze'ye ulaştırdık.

Gıda, ilaç ve temel ihtiyaç
malzemeleri AFAD koordinasyonunda

Gazze'ye gönderiliyor.
Çatışmaların başladığı günden

bugüne kadar tonlarca yardım
mazlumlar iletili.

3 bin tondan fazla içme suyu,
200 binin üzerinde hijyen seti,

23 bin tonu aşan gıda ve yaklaşık 81
bin barınma malzemesi gönderildi.

Yardım tırlarının içinde 245 ton
tıbbi malzeme, 24.692 giyecek ve 80

bine yakın battaniye de yer aldı.
8 tane sahra hastanesi,

53 ambulans ve diğer tıbbi
malzemelerin yönlendirmesini Sağlık

Bakanlığı bize tedarik etti.
Diğer insani yardım malzemelerinin

tamamını da ülkemizdeki sivil toplum
kuruluşları bağışçıları tedarik etti.

ASS İNDİR

SRT İNDİR

VTT İNDİR

TEMİZLE

GERİ AL

Çeviri Dili Seç

ÇEVİR

00:02:14 / 00:04:24

00:02:10

00:02:11

00:02:12

00:02:13

00:02:14

00:02:15

00:02:16

00:02:17

00:02:18

00:02:19

nlarca yardım
a iletili.

3 bin tondan fazla içme suyu,
200 binin üzerinde hijyen seti,

3 bin tondan fazla içme suyu,
200 binin üzerinde hijyen seti,

23 bin tonu aşan gıda ve yaklaşık 81
bin barınma malzemesi gönderildi.

23 bin tonu aşan gıda ve yaklaşık 81
bin barınma malzemesi gönderildi.

4.01

4.71

Subtitle Editor

Video (MP4) Dosya seçilmedi Audio (WAV) Dosya seçilmedi Subtitle (SRT) Dosya seçilmedi



02:31.374

0.5x 1x 1.5x

00:01:27,330 --> 00:01:39,900

demir sevkıyatı yapılacaktı değil mi?
4- O demirler hesaplarınızın sermayesi olacak.

00:02:12,520 --> 00:02:14,770

Sultanın huzuruna ruhsatla girilmez.

00:02:29,890 --> 00:02:35,340

Sultanın huzuruna başınız önde girecek.
Sultan Konuşmadan söze girmeyeceksiniz.

00:02:36,360 --> 00:02:43,290

En mühimi de Şehinşah Efendimizle konuşurken asla ve
kat'a gözlerine bakmaya kalksanız.

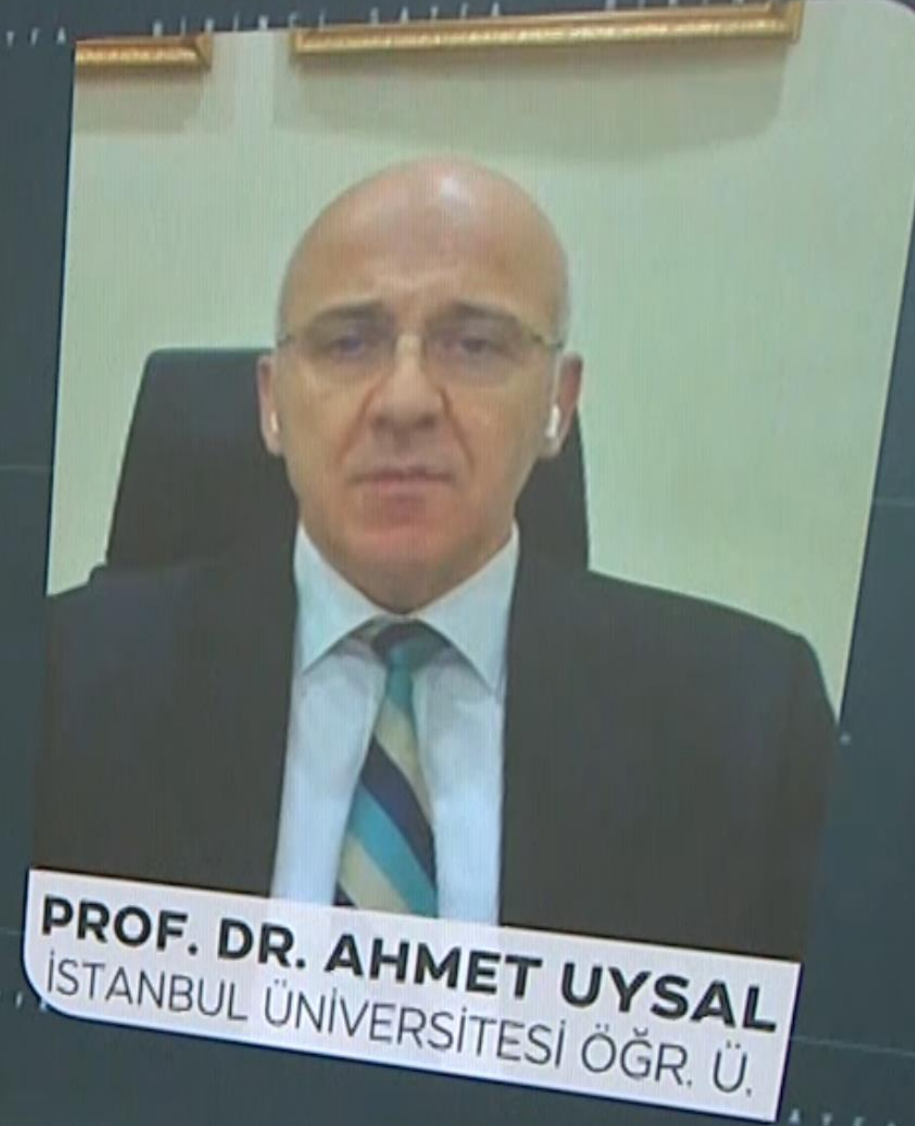
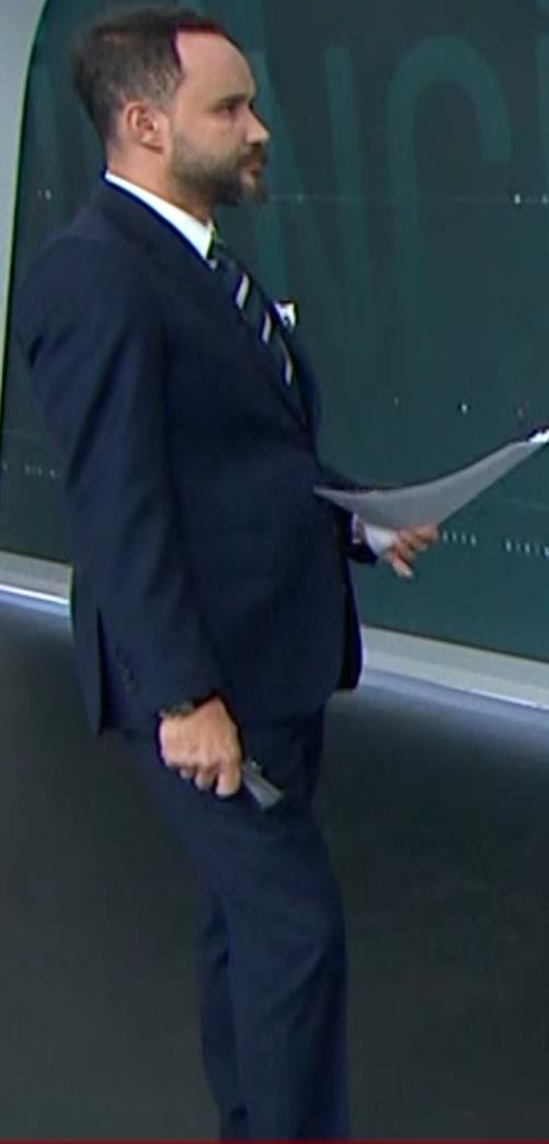
00:03:07,680 --> 00:03:21,560

Burada durun. Sultanımız ın gözüne bakma.
Ne istersin? Alpaslan iyi isterim.

00:03:26,690 --> 00:03:41,720

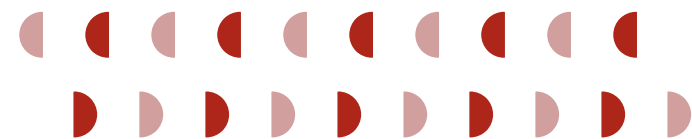
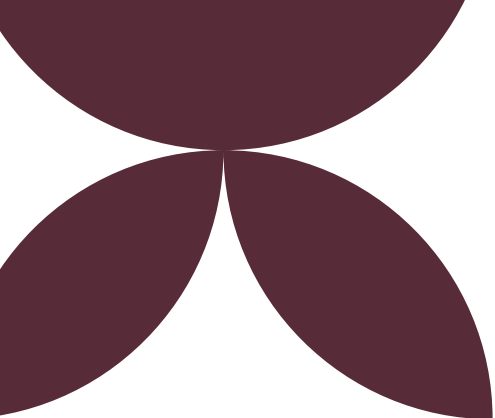
A top-down view of a workspace. In the upper left, a portion of a silver laptop is visible. To its right is a small, round, green artificial plant. Further right is a black calculator with white buttons. Below the calculator are a pair of black-rimmed glasses. In the lower right, a person's hand, wearing a blue and white checkered shirt cuff, holds a silver pen and writes in a spiral-bound notebook with lined pages. The notebook is open, and the pen is positioned over the lines. The entire scene is set against a dark, textured desk surface. On the left side of the image, there are several overlapping semi-circular shapes in shades of red and maroon. A large, solid red rectangular box is superimposed over the center of the image, containing white text.

4 September 2024 21:00



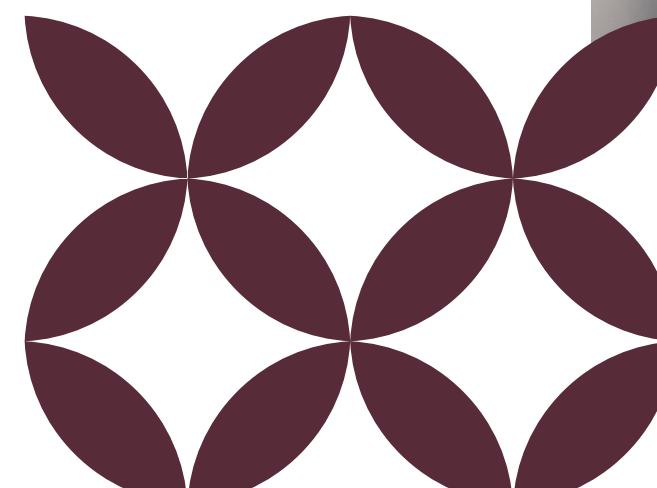
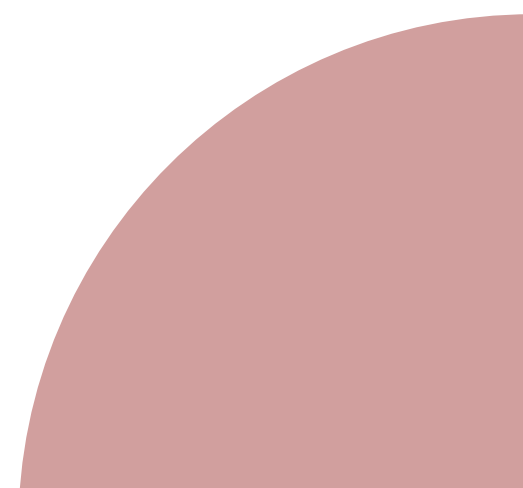
ZİYARETİN BÖLGEYE YANSIMASI NE OLUR?

**SON
DURUM**



VoiceCast

Our goal is for our AI system, trained with voice data, to read texts in the desired emotional tone, performing voiceovers for news and programs. This system can be used for various applications, such as video news readings, program content voiceovers, radio shows, podcasts, and narration of web page content. With this application, we aim to elevate the voiceover experience to a new level, making it more captivating.



VoiceCAST



[Talk2TRANSLATE](#) [VoiceCAST](#) [NewsGENIUS](#) [ALI](#) [Subtitle](#) [SRT Edit](#) [Contact](#)

PODCAST STUDIO Turkish Content

Translated Content

Catch up on today's global news.

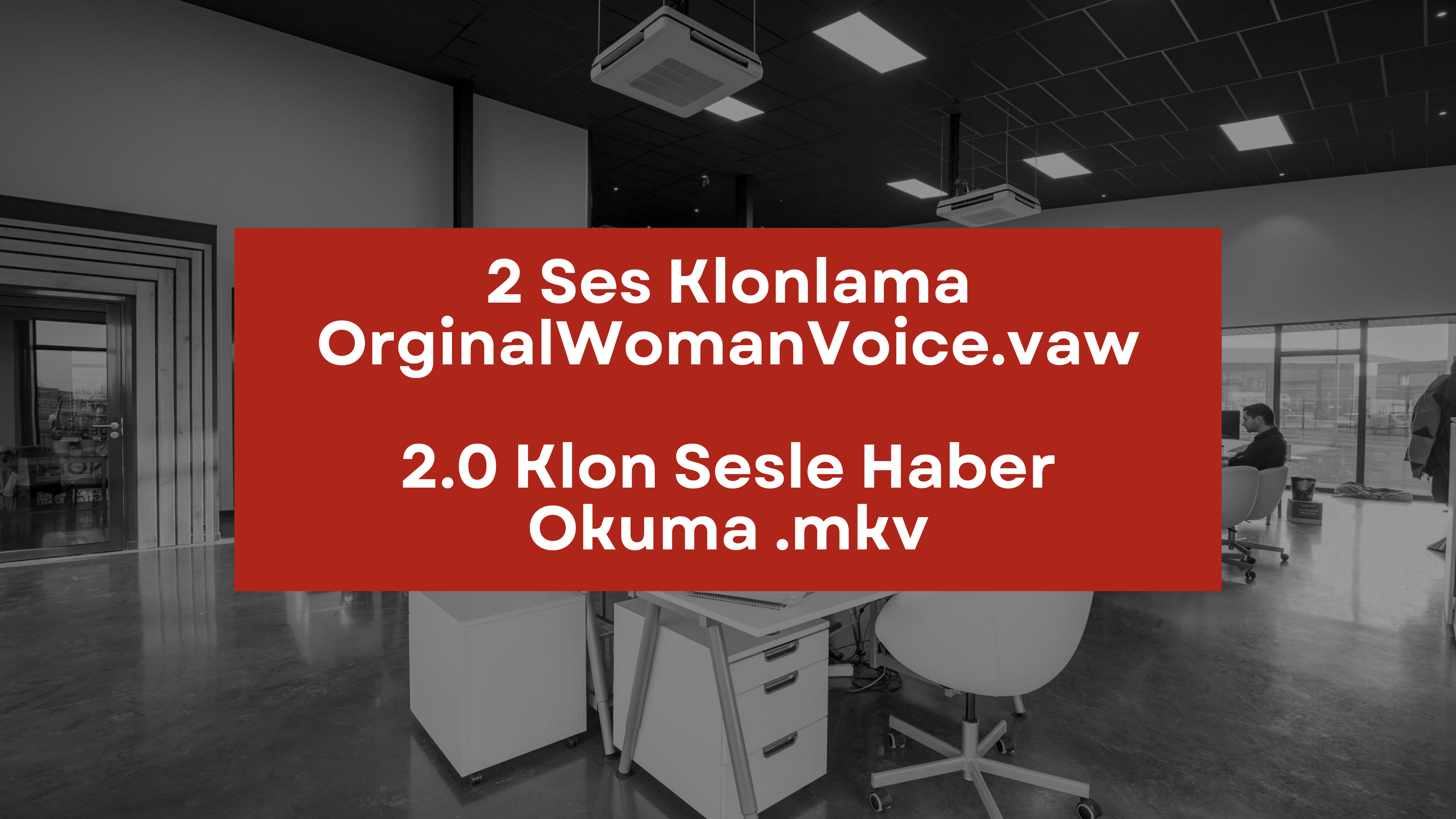
☒ Add Background News Jingle en-US-AvaMultilingualNeural

Create Podcast

Play

Translate Tr to En

▶ 0:00 / 0:00

A grayscale photograph of a modern office interior. The ceiling features a grid of square acoustic tiles with several square recessed lights. Two large, white, rectangular air conditioning units are suspended from the ceiling. On the left, there is a glass door or partition. In the foreground, a white desk with drawers and a white office chair are visible. In the background, a person is seated at a desk near a large window that looks out onto a parking lot.

2 Ses Klonlama
OrginalWomanVoice.vaw

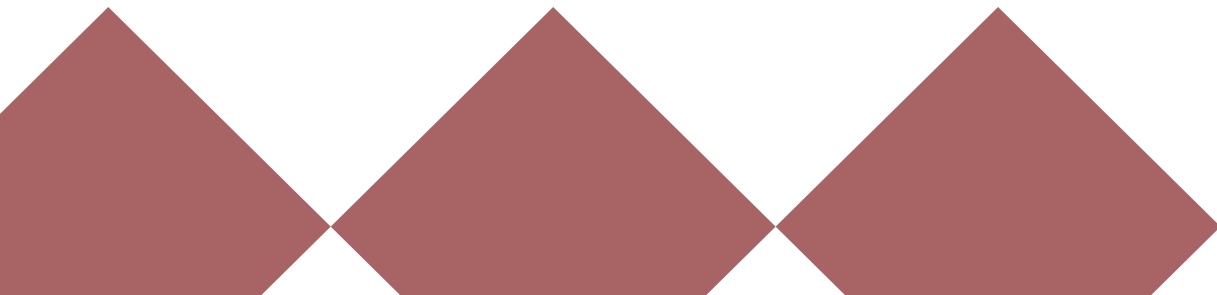
2.0 Klon Sesle Haber
Okuma .mkv

3 Alt Yazı Video Ceviri.mkv



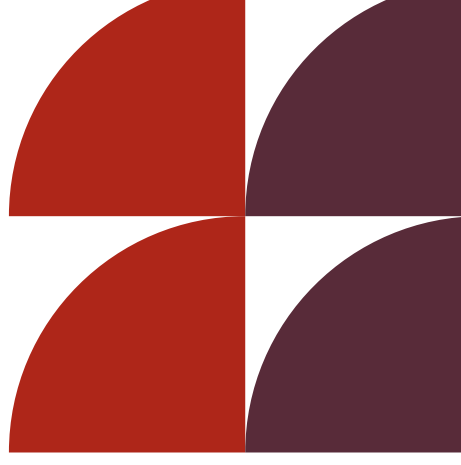
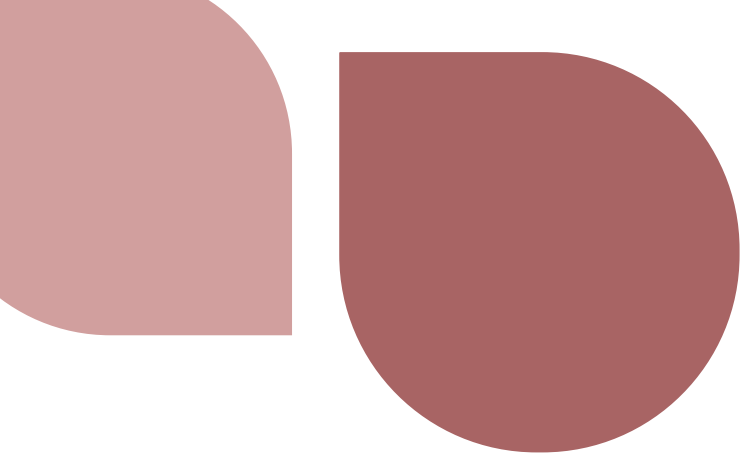
Ai News

Our goal is to restructure news coming from broadcasts or approved agencies by creating new content, offering image and headline suggestions, and producing diverse types of articles. Through this approach, we aim to deliver a broader range of news content and enhance reader/viewer engagement. Additionally, by incorporating suggestions for web SEO optimization, we believe it can help improve visibility in search results. This strategy is seen as a way to strengthen our leadership in digital media while enriching the reader/viewer experience



A grayscale photograph of a modern office interior. The space features several white desks with drawers, ergonomic chairs, and large windows on the right side. A person is visible sitting at a desk in the background. The ceiling has a grid pattern with recessed lighting and two square air conditioning units. A red banner with white text is overlaid in the center.

4 AI News.mkv



Ai Program Editor Helper

Our goal is to provide program hosts and editors with a comprehensive pre-preparation tool for the programs they are creating or interviews they are conducting. By offering suggestions such as the interviewee, topic, and potential questions, we believe that it can assist in the preparation process. This approach aims to contribute to the production stages of the programs and speed up the workflows of hosts or editors. For instance, program suggestions, spell check, translation, etc

Video Summary

Choose file No file chosen

Source Language Turkish ▼

Make Summary

TRT Bilgi Teknolojileri Dairesi Başkanlığı - 2024

Video Summary

Choose file 13.00 Israel Attack.mp4

Source Language English ▼

Make Summary

TRT Bilgi Teknolojileri Dairesi Başkanlığı - 2024

Video Summary

Choose file No file chosen

Source Language English ▼

Make Summary

Job successfully submitted, waiting for summary...

Processing summary...

Processing summary...

Processing summary...

Processing summary...

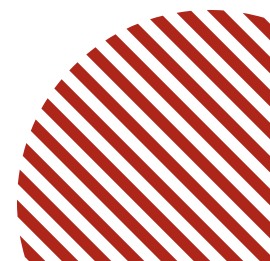
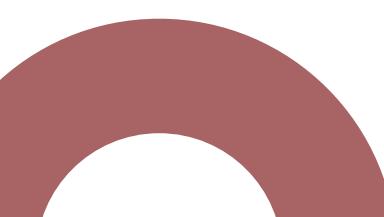
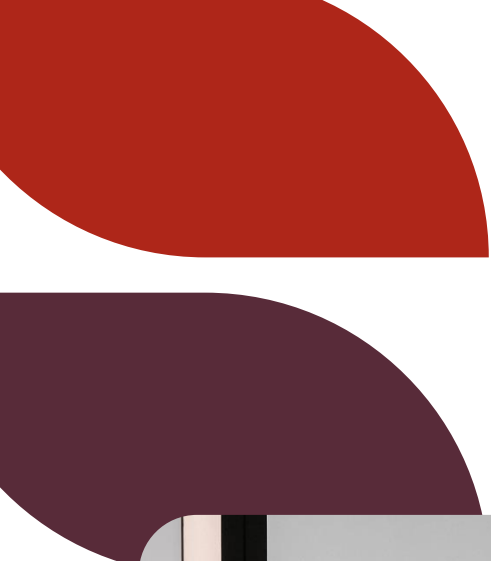
Summary saved: E:\VS2022Project\AIHelpDesk\AINews\AINews2 - Exch Filtre OK\AINews\AINews\Summaries\13.00 Israel Attack_c7806eb2-012d-45fb-ad0d-3f3ddd854f80.txt

- Israeli officials are considering a ground operation in Lebanon, with military assets amassed on the border, while Beirut experiences a major strike, the first since 2006, signalling an escalation in the conflict.
- The targeted area in Beirut is not a Hezbollah stronghold and is inhabited by a diverse population including foreign nationals and Syrian refugees, raising fears that any location could be struck.
- Lebanese caretaker Prime Minister Najib Mikati calls for a ceasefire, while Hezbollah's deputy secretary general vows to continue fighting in response to Israeli actions and the killing of Hassan Nasrallah.

TRT Bilgi Teknolojileri Dairesi Başkanlığı - 2024

A grayscale photograph of a modern office interior. The space features several white desks with drawers, ergonomic chairs, and large windows on the right side. A person is visible sitting at a desk in the background. The ceiling has a grid pattern with recessed lighting and two square air conditioning units. A red banner with white text is overlaid in the center.

5 AI NewsWriter.mkv



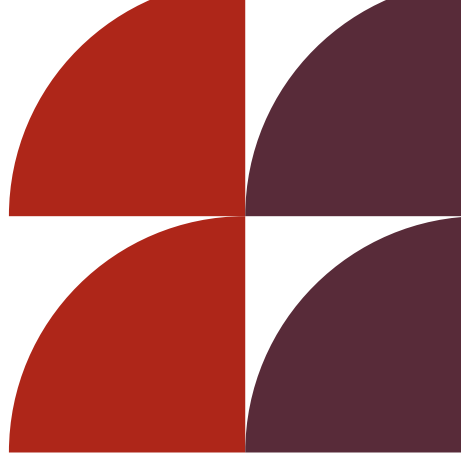
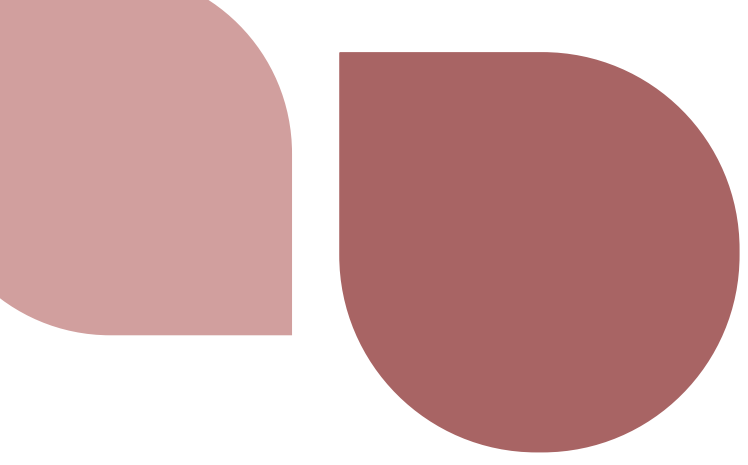
Ai supported Archives

By leveraging the power of Artificial Intelligence, we aim to automatically detect and store video content and visuals, enabling searches to be performed using this content for more accurate and faster results. This system is designed to automatically organize video archives, swiftly and effectively classify the content, and provide users with quicker access to the information they seek. The AI-powered video archiving system is expected to save time and resources for our organization. We believe that these features will contribute to digital media management and enhance the user experience.



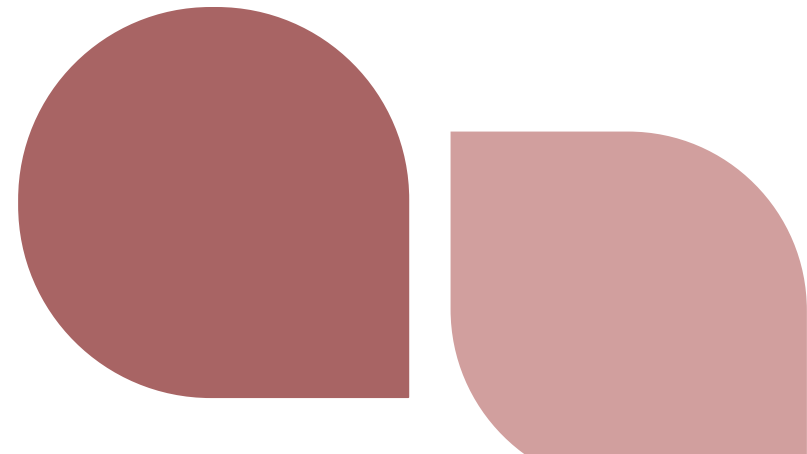
A grayscale photograph of a modern office interior. The space features several white desks with drawers, equipped with computers and office supplies. Ergonomic chairs are positioned at the desks. Large windows on the right side provide a view of the outside. The ceiling has a grid pattern with recessed lighting and two square air conditioning units. A red banner with white text is overlaid in the center.

6 AI MediaArchiveSubtitleEditor.mkv



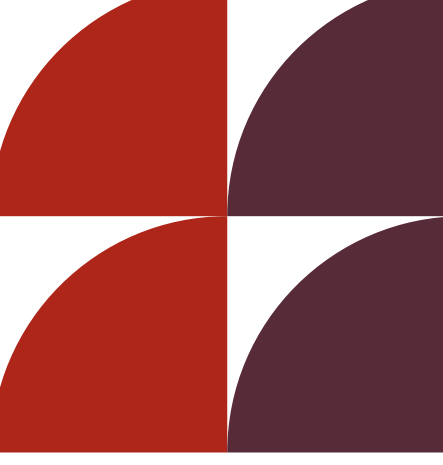
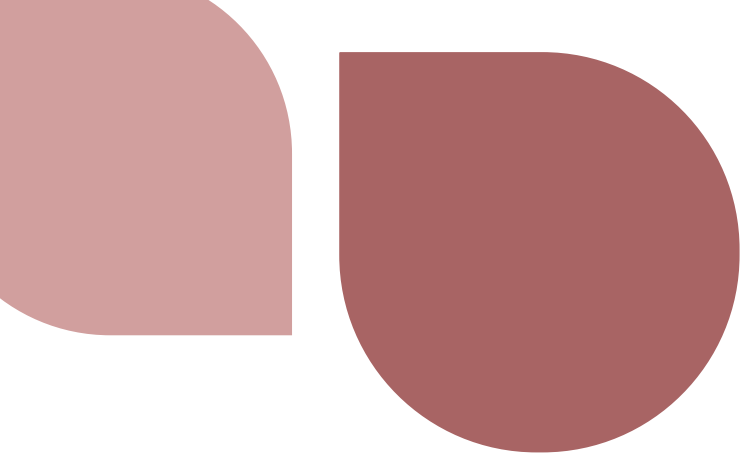
Avatar Speaker

Our goal is to create an 'Avatar Presenter' trained with real human visuals by harnessing the power of Artificial Intelligence, allowing the avatar to read provided texts or generate content with its own commentary. This approach aims to transform the content creation process and enrich the user experience. We believe that this will significantly enhance user engagement in the digital media domain



TRT Avatari Ali
Daima
Yeni
Beni takip edin.





Thank You,

TRT



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Deputy Director
ruhi.tas@trt.net.tr
INFORMATION TECHNOLOGIES DEPARTMENT

