

## STATUS REPORT

|               |                         |                 |            |
|---------------|-------------------------|-----------------|------------|
| Organisation: | TRT                     |                 |            |
| Period:       | 30.09.2024 – 25.08.2025 | Date of Report: | 29.08.2025 |

### PART A

#### Technical Developments during the past year:

- System upgrades/changes to practices for improved quality/efficiency
  - The Digital Archive System Project - Present 4PB media archive and related database is migrated to and reachable by the new system. The data transfer to LTO-9 tape cartridges has been completed. System compatibility and user settings have been finalized. User trainings have been provided, and the Digital Archive System has been made available to the user.
  - Archive System (Diva-Oracle) Renewal and Expansion Project for TRT-World / TRT-Arabi channels – physical installation has been completed and renewed to LTO-9 and Tape Library capacity increased to 7,5PB. Media transfer to LTO-9 tape has been finalized.
- New Services/new projects initiated
  - Bilgin (Enterprise AI Assistant) – Ongoing project enabling TRT personnel to access organizational information seamlessly.
  - Virtual Speaker for TRT Radio – Ongoing project cloning broadcaster voices to automatically reproduce news content.
  - AI Event – Real-time transcription and translation into 52 languages for TRT's international events.
  - AI Live (Proof-of-Concept) – Prototype system delivering live transcripts for real-time broadcasts.
  - Katip for TRT News – Automated transcription and translation service for uploaded video and audio content.
- Research projects
  - AI-Powered Archive System: Intelligent archiving, indexing, and retrieval of media assets.
  - AI-Assisted Sign Language Solutions: Automatic sign language transcription, sign-to-text, and text-to-sign conversion.
  - AI-Driven Radio Theatre for TRT Radio: Synthetic voice generation and creative production support.
  - AI Content Authenticity Detection: System to distinguish AI-generated content from human-created content.
  - With artificial intelligence technologies, it is aimed to utilize advanced functions such as speech-to-text conversion, face recognition, classification of videos based on their content, detection of scenes based on keywords or individuals, and automatic clip generation.
- Internet and Mobile Broadcasting Services
  - AI Live (Proof-of-Concept) – Developed a prototype system that delivers real-time transcription for live streams.

|                         |                           |       | Radio                                                                                                                                                                                                     | Television                                                                                 |
|-------------------------|---------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Coverage %              |                           |       | TRT FM: %99.7<br>TRT Radio1: %93.6<br>TRT Nagme: %90.8<br>TRT Turku: %92.3<br>TRT Radio News: %88.9<br>TRT Radio 3: %82.3<br>TRT Radio Kurdi: %21.7<br>TRT Radio World: %30.59<br>TRT Radio Arabia: %21.4 | TRT 1 : %98.4<br>TRT News: %98.1<br>TRT Sport : %96.8<br>TRT Kids : %92<br>TRT Kurdi : %16 |
| Programme Channels      |                           |       | TRT FM<br>TRT Radio 1<br>TRT Nagme<br>TRT Turku<br>TRT Radio News<br>TRT Radio 3<br>TRT Radio Kurdi<br>TRT Radio World<br>TRT Arabia                                                                      | TRT 1<br>TRT News<br>TRT Sport<br>TRT Kids<br>TRT Kurdi                                    |
| Studios (Production)    | File-based Set-up         | R/N/D |                                                                                                                                                                                                           |                                                                                            |
|                         | SDTV                      | R/N/D |                                                                                                                                                                                                           |                                                                                            |
|                         | HDTV                      | R/N/D |                                                                                                                                                                                                           |                                                                                            |
|                         | UHDTV                     |       |                                                                                                                                                                                                           |                                                                                            |
|                         | IP Based Set-up           | R/N/D |                                                                                                                                                                                                           |                                                                                            |
| Transmission & Delivery | HF                        | R/N/D |                                                                                                                                                                                                           |                                                                                            |
|                         | MF                        | R/N/D |                                                                                                                                                                                                           |                                                                                            |
|                         | FM                        | R/N/D |                                                                                                                                                                                                           |                                                                                            |
|                         | TV                        | R/N/D |                                                                                                                                                                                                           |                                                                                            |
|                         | OTT/IBB/Internet Services | R/N/D |                                                                                                                                                                                                           |                                                                                            |
|                         | Mobile Services           | R/N/D |                                                                                                                                                                                                           |                                                                                            |

R = Replacement/upgrade

N = New

D = Discontinued

**PART B**  
**CURRENT ACTIVITIES**

|    | Activities                                                                                                                                                   | Area                                  | Brief Details:<br>1. Objectives<br>2. Progress to date                                           | Challenges/Problems Faced:<br>1. Lack of resources<br>2. Lack of know-how<br>3. Others (e.g. up-skilling)                                                               | Solutions Implemented / Type of assistance requirement from ABU                         |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1. | <b>Development projects / Upgrading facilities / Training</b>                                                                                                | Bilgin (Enterprise AI Assistant)      | 1. Accessing organizational information easily.<br>2. Planned for release by the end of the year |                                                                                                                                                                         | Having enough knowledge and experience. No technical assistance is needed at this time. |
|    |                                                                                                                                                              | Digital Radio (DAB+)                  | In trial                                                                                         | Waiting the final frequency planning form RTUK.<br>8 radio programmes in Ankara, Istanbul, Izmit and Bursa broadcasting via DAB+.                                       | Having enough knowledge and experience. No technical assistance is needed at this time. |
|    |                                                                                                                                                              | Digital TV (DVB-T2)                   | In trial                                                                                         | Waiting the final frequency planning form RTUK.<br>6 SD/3 HD TV programmes and 14 Radio programmes in Ankara, Istanbul, Izmir, Adana and Bursa broadcasting via DVB-T2. | Having enough knowledge and experience. No technical assistance is needed at this time. |
|    |                                                                                                                                                              |                                       |                                                                                                  |                                                                                                                                                                         |                                                                                         |
| 2. | <b>Participation in ABU Activities</b>                                                                                                                       | <b>Area</b>                           | <b>Level of Participation</b>                                                                    | <b>Reasons for not participating (though interested)</b>                                                                                                                |                                                                                         |
|    |                                                                                                                                                              | DBS2025 Malaysia (AI in Broadcasting) | Booth and speak for Showcase TRT's AI applications                                               |                                                                                                                                                                         |                                                                                         |
|    |                                                                                                                                                              |                                       |                                                                                                  |                                                                                                                                                                         |                                                                                         |
|    |                                                                                                                                                              |                                       |                                                                                                  |                                                                                                                                                                         |                                                                                         |
| 3. | <b>Suggestions for New ABU Activities e.g. study topic projects, webinars, workshops, symposiums etc, spectrum activities, information exchange platform</b> | <b>Activity 1</b>                     |                                                                                                  |                                                                                                                                                                         |                                                                                         |
|    |                                                                                                                                                              | <b>Activity 2</b>                     |                                                                                                  |                                                                                                                                                                         |                                                                                         |

|  | Activities | Area       | Brief Details:<br>1. Objectives<br>2. Progress to date | Challenges / Problems Faced:<br>1. Lack of resources<br>2. Lack of know-how<br>3. Others (e.g. up-skilling) | Solutions Implemented / Type of<br>assistance requirement from<br>ABU |
|--|------------|------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  |            | Activity 3 |                                                        |                                                                                                             |                                                                       |