



TELECOMMUNICATIONS AUTHORITY
of Trinidad & Tobago



Embrace the Future of Television

DTT Update and Progress

March 2024



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of Trinidad & Tobago

T&T National Digital Transformation Strategy 2023 – 2026 Pillars



Digital Society



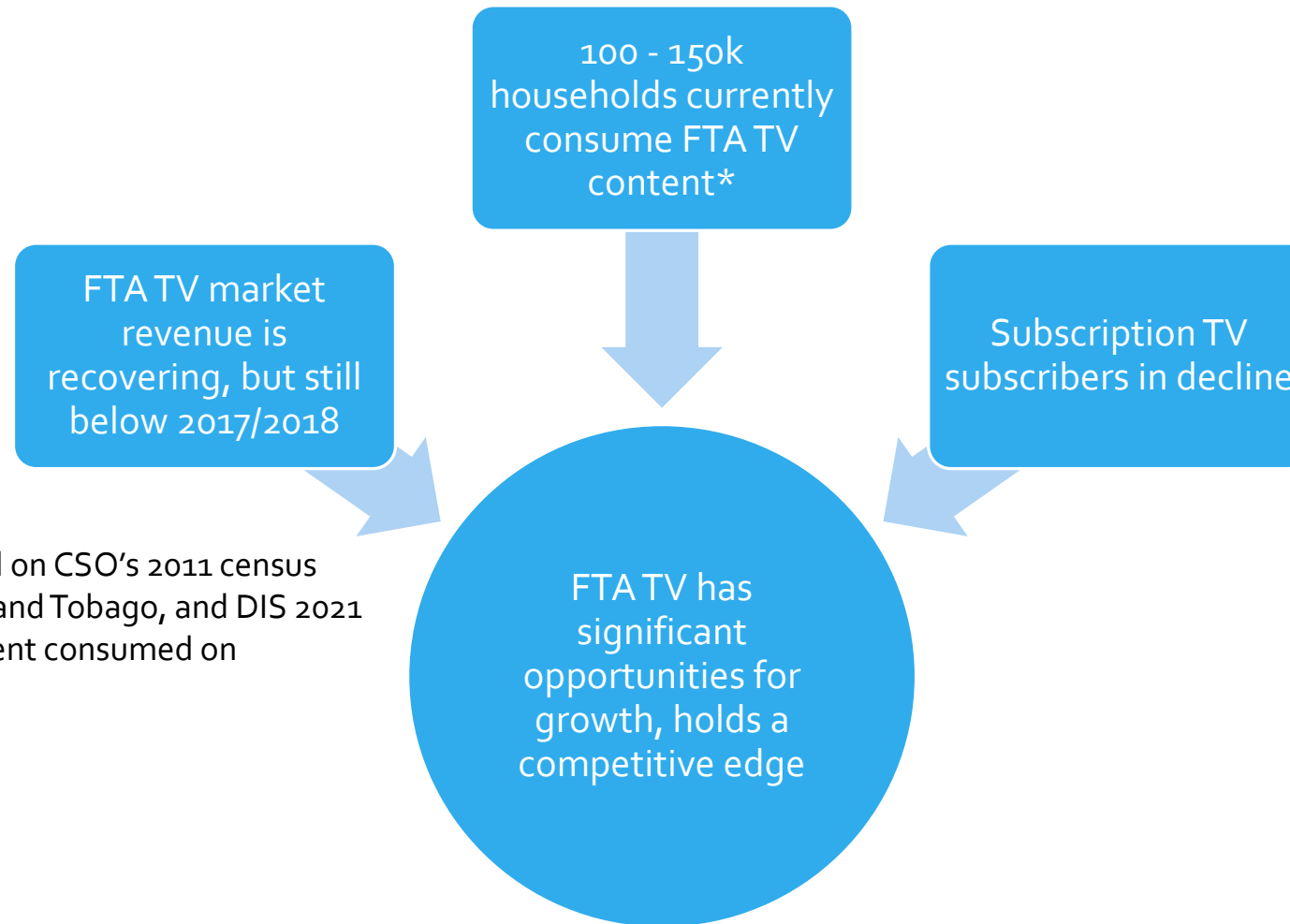
Digital Economy



Digital Government



State of FTA TV Market



* conservative estimate based on CSO's 2011 census
~405k households in Trinidad and Tobago, and DIS 2021
Does not include FTA TV content consumed on
Subscription TV

Benefits of DTT Adoption



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Reduced Costs

Estimated annual opex savings of **TT\$1m+**
Spectrum, Electricity, Insurance, Repairs & Maintenance



Increased Revenues

Datacasting
Additional channel opportunities
Education content delivery
Disaster Relief
Mobile off-load



Increased Quality

HD, 4K
EPG
Increased coverage
On Demand
Future-Proof

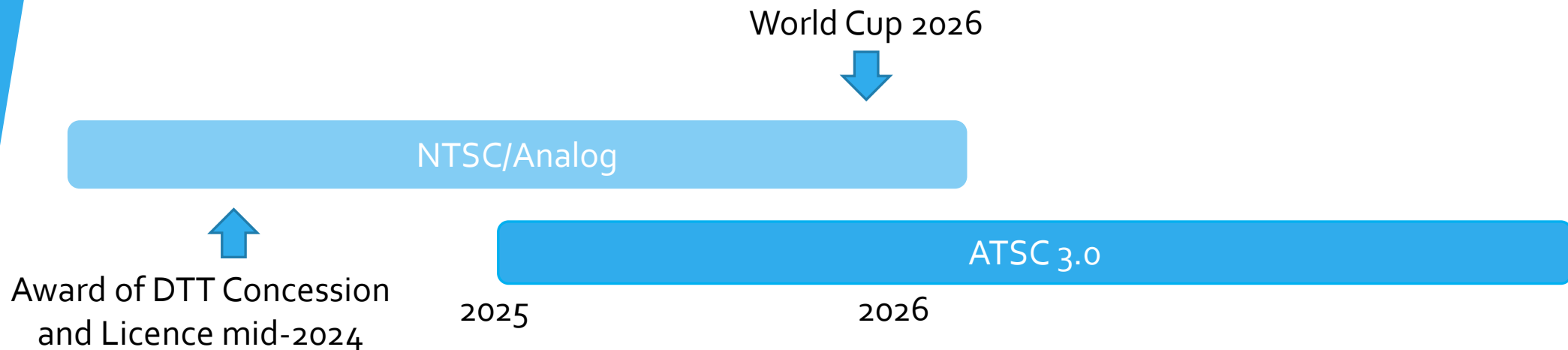


ESG

Reduced energy consumption
Safer RFR levels
Bridging the digital divide



Proposed DTT 2026 Transition path



Ubiquity of ATSC 3.0 device *ecosystem* to occur from 2023 to 2026 to enable Analog Switch-off

2026 coincides with renewal of FTA broadcast concessions



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DTT ecosystem

Hisense



TCL



SAMSUNG

SONY

- 30+ ATSC 3.0 TV models available
 - Hisense, LG, Samsung, Sony, TCL coming in 2024
- ATSC 3.0 Receivers available at ~US\$90
- ATSC 3.0 USB receivers (dongles)

<https://www.watchnextgentv.com/shop/>





Consumer adoption of DTT

- No impact to existing consumers of subscription TV services
 - Consumers can choose to cut the cord and consume local channels in HD over the air
- Existing free-to-air TV consumers can reuse existing UHF antenna
 - Access better quality (HD), more services, better features, improved coverage
 - Can purchase an ATSC 3.0-capable TV when replacing existing TVs
 - Can reuse existing TVs with ATSC 3.0-capable Set Top Boxes/receivers
 - Can employ ATSC 3.0 capable USB receivers on smart devices (laptops, TVs and tablets)
- Hisense and Samsung Nextgen TVs currently available locally at retailers (Circuit Zone, PriceSmart)



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Nextgen TVs available locally

Hisense 65/75U75H



Samsung Q65S9oCAFZA

165cm
65"



Smart TV
Powered by TIZEN

Resolution
Resolución
3840 x 2160

Bluetooth

OLED





DTT Working Groups Terms of Reference

Steering Committee

- Approve Working Group recommendations
- Monitor execution of actions

Public Relations

- Develop Consumer Awareness Plan
- Manage Stakeholder Engagement

Finance

- Develop Receiver Ubiquity approach
- Recommend suitable fiscal incentives

Technical

- Develop Implementation Plan
- Develop Receiver Standards
- Finalise Signal Distributor model



DTT Milestones



Notice of adoption of ATSC 3.0 published in Jan 2023



Updated DTT Framework published in Jan 2024



RFP for DTT Shared Signal Distributor issued



The Telecommunications Act Chap. 47:31

NOTICE

Pursuant to section 45(2) of the
Telecommunications Act

**ADOPTION OF ADVANCED TELEVISION SYSTEMS COMMITTEE
STANDARD VERSION 3.0 (ATSC 3.0) AS THE STANDARD FOR
FREE-TO-AIR DIGITAL TERRESTRIAL TELEVISION (DTT) IN THE
REPUBLIC OF TRINIDAD AND TOBAGO**

Pursuant to section 45(2) of the Telecommunications Act Chap. 47:31, the Telecommunications Authority of Trinidad and Tobago (the Authority) hereby notifies the public of its adoption of the Advanced Television Systems Committee digital television standard version 3.0 (ATSC 3.0) as the standard for free-to-air digital terrestrial television (DTT).

The adoption of the ATSC 3.0 standard is based on a requirement of the Authority's Framework for Digital Terrestrial Television Broadcasting (DTT Framework) which underwent two rounds of consultation.

The selection of ATSC 3.0 as the DTT standard included deliberations by the DTT Technical Working Group which comprised key stakeholders in the broadcast industry. The free-to-air television broadcast industry has therefore by consensus agreed to the adoption of ATSC 3.0 as the standard for DTT.

ATSC 3.0 is an advanced DTT standard that allows content to be delivered in up to 8K resolution and is based on Internet Protocol, thus, allowing modern entertainment experiences such as interactive viewing and datacasting services.

In March 2023, the Authority will recommence work with the broadcasting industry and other stakeholders to ensure a smooth transition to ATSC 3.0 by 2026. This will include ensuring ATSC 3.0 consumer devices are available in Trinidad and Tobago.

Date: 18th January 2023.



Implementation Update

- DTT Implementation Plan developed by Technical Working Group
- Website section developed with information on DTT transition
- Broadcasters engaged to discuss preferred Signal Transmission Approach
- Breakfast meeting held with major retailers on TVs in September 2023
- Existing FTA broadcasters to apply for own DTT network by 29th March 2024
- RFP for shared DTT signal distributor issued from January to 26th April 2024
- Public education campaign commenced with ICT Forum on 25th January 2024
- Demo ATSC 3.0 transmitter to be established at TTT's facilities in 2024



Support for receiver adoption

- Recommend waiving duties on ATSC 3.0 set top boxes
- Recommend reduced duties on select ATSC 3.0 TV base models (minimal size, under 5% of overall TV import base) for a defined period
- Implement measures to assist purchase of set top boxes by vulnerable groups



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Thank You