



OVERVIEW AND UPDATES · IMMERSIVE MEDIA

Beyond 2D Video Experiences

Evaluating video formats beyond 2D: stereoscopic, multi-view plus depth, point clouds and dynamic meshes

3GPP

OCTOBER 2026 – www.5g-mag.com

About the project

The documents the project rests on

3GPP TR 26.956

Technical Report

Evaluation and Characterization of Beyond 2D Video Formats and Codecs, the output of the study FS_Beyond2D.

3GPP TS 26.501

and TS 26.512

The 5G Media Streaming architecture and protocols the formats are assessed against.

ISO/IEC 23090-5

Standard

Visual Volumetric Video-based Coding (V3C), referenced for evaluation.

FIND OUT MORE

Technical Analysis

Specifications

Formats under evaluation

The four format families of the study, with the coding approaches evaluated for each

Stereoscopic video a left and right view: a fixed 3D effect, no free viewpoint

MV-HEVC

Simulcast or frame-compatible HEVC (anchor)

Multi-view plus depth several views with depth: a limited change of viewpoint

MIV profile of V3C

MV-HEVC

Dense dynamic point clouds a volumetric capture of an object or person

V-PCC

G-PCC, noted as a related technology

Dynamic meshes a volumetric representation with time-varying textured 3D meshes

V-DMC

The report also surveys formats under research (neural radiance fields, light fields, 3D Gaussian splatting) without evaluating them.

Services evaluated

The three services of the study, as listed by the reference repository

Stereoscopic

Live, device to device

UE-to-UE stereoscopic video live streaming. Planned in the repository.

Point cloud

On demand

Streaming of professionally produced volumetric video, a single asset containing people.

Multi-view

Plus depth, on demand

On-demand streaming of multi-view plus depth.

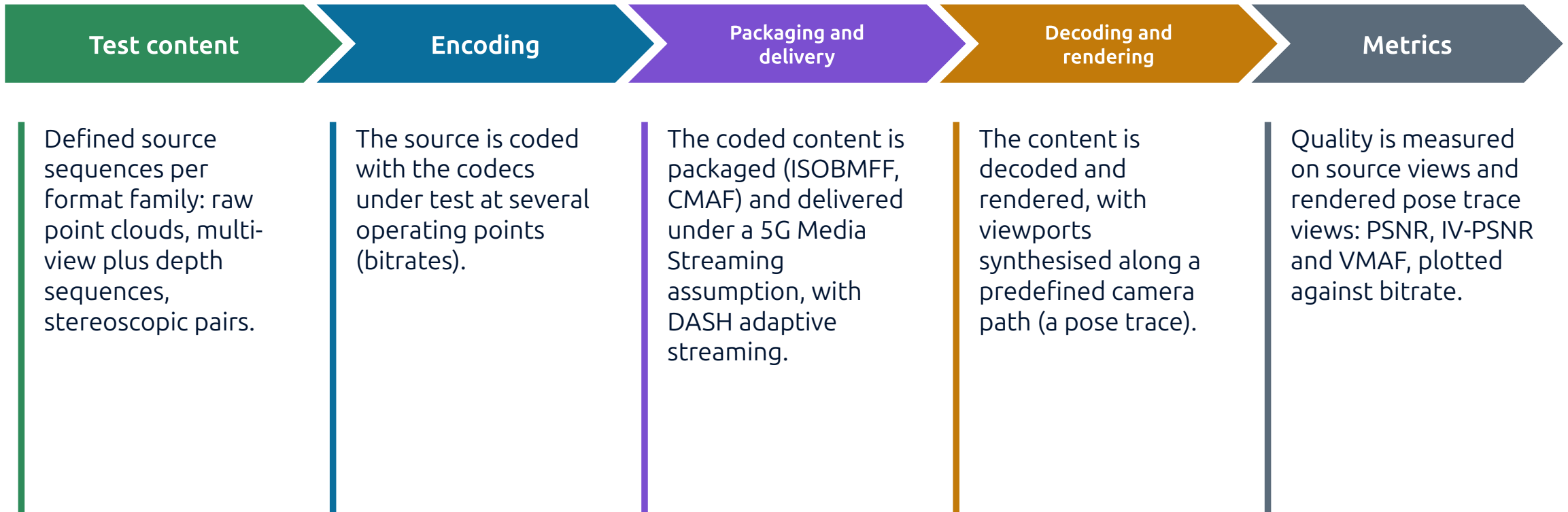
FIND OUT MORE

Technical Analysis

Specifications

Evaluation pipeline

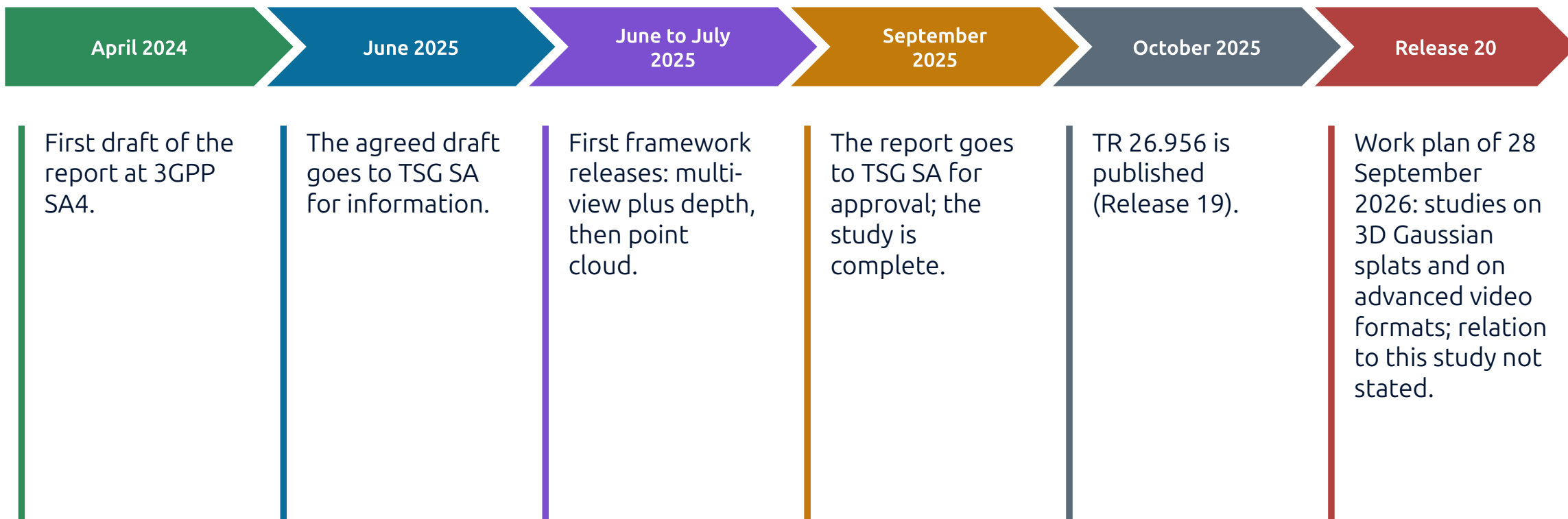
A repeatable pipeline, so that results are comparable across formats and contributors



Sources, bitstreams and rendered pose trace videos are large, so the framework references content on external servers.

How it grew

The 3GPP study and the 5G-MAG evaluation framework, from the first draft to Release 20



Related Release 19 work: VOPS adds TS 26.265, with stereoscopic operation points based on MV-HEVC.

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Repository

The one repository of the evaluation framework, from its README

REPOSITORY	WHAT IT IS	COVERS	LATEST RELEASE
rt-beyond2d-evaluation-framework	scripts and configuration files for the reproducible evaluation of FS_Beyond2D: multi-view plus depth (TMIV) and V-PCC point clouds	Multi-view plus depth Point cloud	v0.2.1 24 Jul 2025 GitHub

FIND OUT MORE

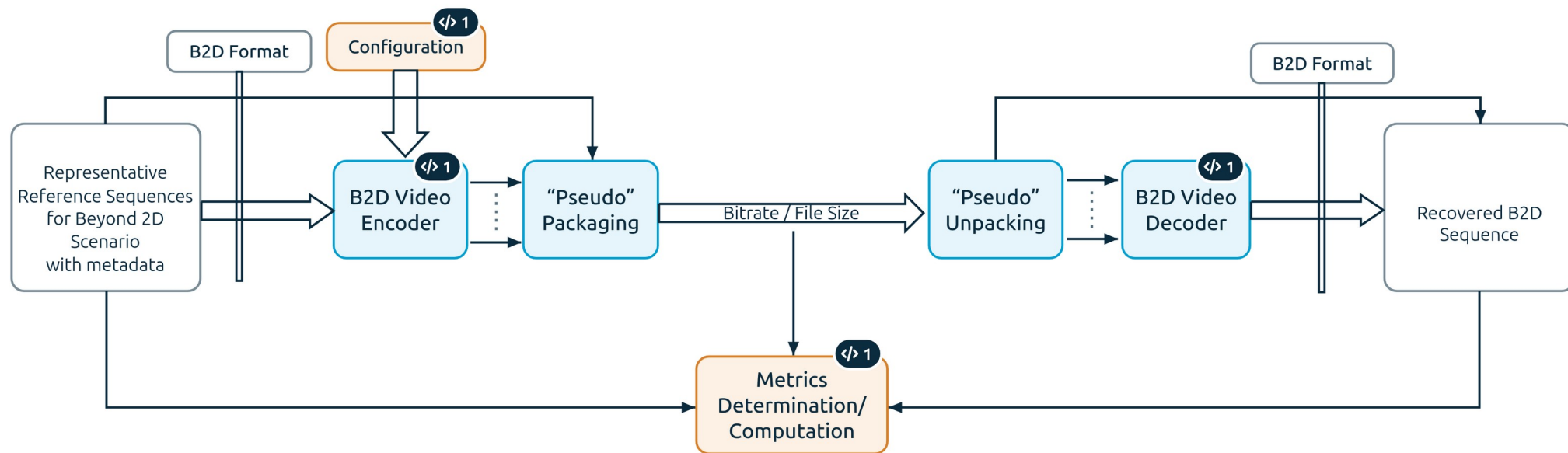
- Technical Analysis
- Specifications

released no release yet

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Repositories in the architecture

The Reference Tools on the specification figure, as the figure generator draws them



PROVIDED BY THE REFERENCE TOOLS

1 rt-beyond2d-evaluation-framework

Mapped from the repository's MVD scenario only; boxes without a badge have no repository.

Latest updates and roadmap

Status on 23 October 2026



MERGED SINCE V0.2.0 1 pull request in 1 repository



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