

# PERSONALISED CONTENT CREATION FOR THE DEAF COMMUNITY IN A CONNECTED DIGITAL SINGLE MARKET (CONTENT4ALL)



CONTENT4ALL

Use of a **photorealistic 3D human avatar** for sign-interpreted content creation.

Enable the low-cost **personalization of content for Deaf Viewers** with no disruption to hearing viewers.

Develop the necessary technologies and algorithms to achieve **automatic sign-translation capabilities**.

## OBJECTIVES



More hours of signed content

High Quality of translation



Low-Cost studio for remote signing

Near Real Time interpretation



Lower costs for producing signing content

No impact on hearing audience



3D Photo Realistic Virtual Human

Real testing domain

## GOALS

2017-2018

HW/SW to capture a human signer in real-time: remote studio; photo-realistically reproduce posture, gesture and facial expressions of the human sign interpreter via a 3D virtual human.

2018-2019

Database of data captured during remote studio operation used for training machine learning models for automatic translation into sign language and improving the 3D virtual human.

2019-2020

Generate and distribute a separate stream with signing 3D virtual human, mixed server or client side with the original content; PoC to automatic translate a limited domain into sign language.



## Consortium



## Contacts

Dr. Giacomo Inches  
Fincons Group AG  
Via San Gottardo, 12  
6900 Lugano (CH)  
Tel: +41 78 9759385

[coordinator@content4all-project.eu](mailto:coordinator@content4all-project.eu)

