# The Co-Creation Space: Supporting Asynchronous Conversation Dynamics in Remote Participatory Art

Welcome to the CoCreation Space!

# TRACTION PROJECT: Opera Co-creation for Social Good



INVOLVE CITIZENS
IN OPERA
CO-CREATION
PROCESS



EMPOWER SOCIAL TRANSFORMATION WITH LOW-INCOME COMMUNITIES



CREATE IMPACT ON
OPERA THROUGH
PARTICIPATORY DIGITAL
TECHNOLOGY

# **COMMUNITY TRIALS**







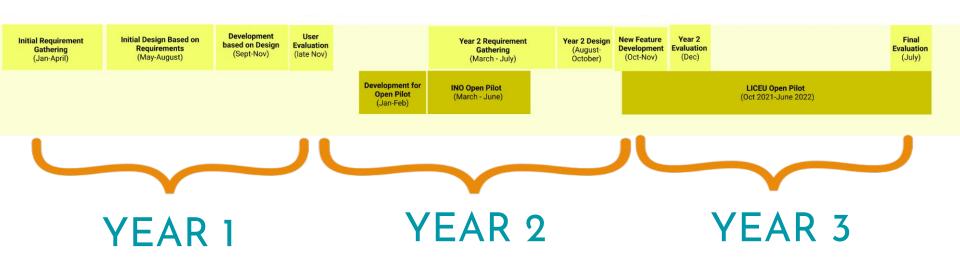






People with disabilities, students, people with a migrant experience, former sex workers, residents of Raval Young prisoners, family members, former inmates, guards, residents of Leiria, justice ministry officials Irish speakers living in remote areas, teenagers in rural communities, adults in Tallaght and South Dublin

# PROJECT TIMELINE



# REQUIREMENT GATHERING



# 3 FOCUS GROUPS WITH 12 OPERA TRIAL LEADERS

BOOKLET PROBE (CONTEXT MAPPING) → FOCUS GROUP → THEMATIC ANALYSIS

#### **Task 3: Future Opera**

(E.g., Community opera, co-creation in Opera, Immersive Opera)

### Authentic mass collaboration in the creation process of community opera

How can a large group of individuals meaningfully contribute to a composing/writing process? Traditionally done by one person?

Mass data representation could be one approach, but there may be others.

https://www.ted.com/talks/david\_mccandless\_the\_beauty\_of\_data\_visualization?referrer=playlist-art\_from\_data&language=en#t-10775

#### Interactive Gamification

Compelling artistic approaches to interactivity in opera. Exploiting mechanics to gamify an operatic experience and develop an artistic idea.

Inspiration from video games with mechanics that aid narrative.

E.g. Jonathan Blow's 'Braid'



Idea 2



# OVERVIEW OF REQUIREMENTS

75	Code Type	Requirements
	Interface	Simple/intuitive interface; onboarding, Standardized tags; Feedback (commenting and tagging); Password protected user profiles; Edit profile settings after onboarding; Content moderation; Privacy settings; Mobile/Desktop Support
	Media	Playback support for HD audio and video; Adaptable video quality for device/bandwidth context; Image previews; Transcode video files into CCS video format; Upload and store standard image and video files and 360° videos; 360° video player; Store, upload, and visualize 3D models; Timestamped media reactions; Screencast support.
	Accessibility	Caption overlays for videos; Subtitles/descriptions (edit offline, download, upload); W3C Compliance; Multi language translation; Offline interface that syncs with online database; Admin permissions
	Summary	Public-facing co-creation summary timeline; Post notifications; Post thread timeline; Daily digest; Calendar schedule.

Support Divergent Elements of Co-creation: Leaders wanted to archive workshop materials, share different phases of co-creation, and needed a space to support education goals and cross-fertilization activities. Supporting uncertain timelines was likewise important.

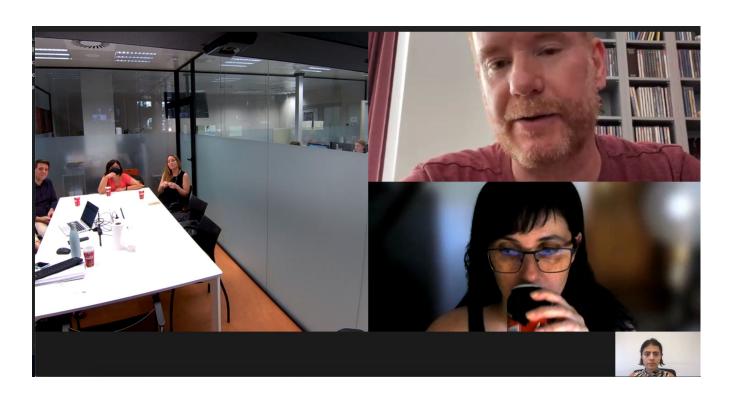
Building Relationships: Helping participants connect remotely was important for **building trust and community relationships**. We found that dignified communication created lasting impact.

Technology Flexibility: Community participants had **limited technology access**, and relied on mobile experiences rather than expensive computers. In complement to this, participants required an **interface with minimal learning**, and access to content in a **variety of languages**, as well as the ability to subtitle and translate text.

High-Quality Audio: Leaders wanted to maximize audio quality to feel the physical sensation of the singers.

# USER CENTERED PROCESS

USER PERSONAS → USE CASES → STORYBOARDS→ WIREFRAMES



# PERSONA EXAMPLES



#### LANGUAGES. COMMUNICATION SKILLS

· Catalan and Spanish although with difficulty speaking · User of SAAC (alternative system to increase communication)

#### MOTIVATIONS

· Elena is very motivated too, and open-mind woman who is interested in living new experiences

#### **RELATION WITH OPERA**

She went once to the opera in a guided visit many years ago. She never saw an opera

#### **EXPECTATIONS WITH THE PROJECT**

- Be able to relate to the environment
- Improved self-esteem
- Self-government

#### OTHER RELEVANT USER CARACTERISCTIS

Interested in using technologies and use them in his daily live Technology user as support for communication and as a work

#### TECHNOLOGY

Familiarity with VR headsets Familiarity with Social Networks Familiarity with social video sharing Familiarity with mobile devices Familiarity with desktop devices

Openness to use technology

Interest in using technology

#### Judit

AGE: 22 OCCUPATION: Student of 4th Degree in Massana School LOCATION: Barcelona and surroundings

#### · Catalan, Spanish and English MOTIVATIONS

- Very motivated because she's a digital native who had interacted with digital technology since the early stages of
- Happy to use of methodologies based on contact with the creators of Sinia and the observation and experimentation of the realities that shape its specific context.

LANGUAGES, COMMUNICATION SKILLS

#### **EXPECTATIONS WITH THE PROJECT**

· Find new ways to express herself through artistic creations.

#### **RELATION WITH OPERA**

- Non a Regular opera user
- She went once to the Liceu to see Puccini's opera Tudandot through the social tickets for young people "Liceu Under 35".

#### OTHER RELEVANT USER CARACTERISCTIS

- Judit already had previous experience in projects developed in specific social contexts and from real experiences.
- She has a remarkable knowledge and mastery of their

#### TECHNOLOGY

Familiarity with VR headsets

Familiarity with Social Networks

Familiarity with social video sharing

Familiarity with mobile devices

Familiarity with desktop devices

Openness to use technology

Interest in using technology

#### Oriol

AGE: 44 OCCUPATION: User of the occupational center, participant of the Creativity

Workshop LOCATION: Assisted living flat in Barcelona for people with disabilities



#### LANGUAGES, COMMUNICATION SKILLS

· He understands Catalan and Spanish but with no speaking · User of SAAC (alternative system to increase communication)

#### MOTIVATIONS

· Oriol is very motivated and anxious to participate in something he never did before

#### **RELATION WITH OPERA**

- · Regular opera user
- · He assists as a spectator at the Liceu through the social program Apropa Cultura

#### EXPECTATIONS WITH THE PROJECT

· Find new ways to express himself through artistic creations.

#### OTHER RELEVANT USER CARACTERISCTIS

- Interested in using technologies and use them in his daily live Technology user as support for communication and as a work
- Oriol is a person with cerebral palsy, with several physical limitations but with his own abilities .

#### Familiarity with WRH padsets GY

miliarity with Social Networks Familiarity with social video sharing

Familiarity with mobile devices Familiarity with desktop devices

Openness to use technology

Interest in using technology

#### Bridgid Ó Flaithbheartaigh

AGE: 50 OCCUPATION: Manual Work - Farming and knitting

LOCATION: Inis Meáin (Rural)

ROLE: Community Participant .

. She wants to keep activity alive in the island

She wants to invest in and maintain the local heritage and identity of the island

She wants to ensure there are valuable experiences for the children in the local area to engage with

#### RELATION WITH OPERA

MOTIVATIONS

Minimum relationship with the theatre and the opera. No knowledge of INO

#### **EXPECTATIONS FOR THE PROJECT** Very motivated to see the outcome.

- She is proud to be a part of it and have her community represented as she has been part of the process

#### OTHER RELEVANT USER CHARACTERISTICS

- . She uses technology to connect with the world outside the island but is not a high level user
- . She is nervous of VR thinks she might feel nauseous

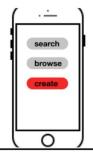
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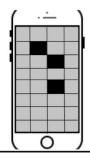
# STORYBOARD EXAMPLES



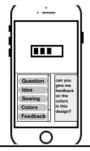
DONA artist records video of sewing, asking questions about the technique



They open the mediavault app and click on "create" content



They Select Images and videos in the popup screen to upload to the App



Add predefined tags + summary while waiting for content to upload



They click on the video to preview



Preview Video as as popup, then exit out of the popup



They click "Add Content" when they are satisfied with videos



Content and summary are added to timeline as a most recent post

# STORYBOARD EXAMPLES



Student Creates sketches of a new costume



Question gets posted to costume thread with images of the sketches



Back and forth responses to the post



Above the post, images form a scrollable timeline with post dates



Costume thread can toggle between a "text" view and "visual timeline" view



User toggles to the timeline view to previews of timeline images



User can scroll over icon to get popup of the full image

# STORYBOARD EXAMPLES



A new video of a SAMP rehearsal is posted online



A SAMP facilitator tags everyone in the video, and adds relevant tags



Mother recieves notification that her son was tagged in a video



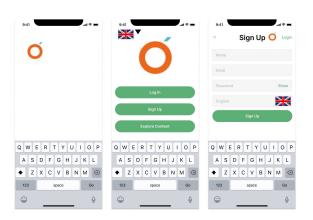
She watches rehearsal, and sees a comment pop up at a timestamp

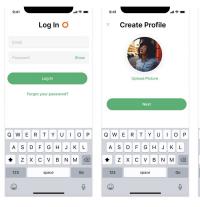


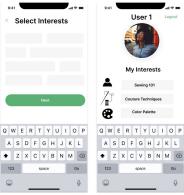
when she sees her son, she adds a heart emoji - it floats on the screen and gets added to the timeline

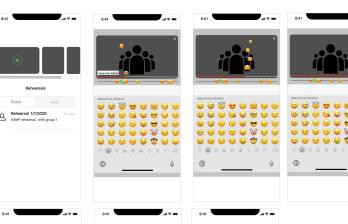


When the video is over, she adds a comment, which is represented at the end of the timeline, and shown below the video

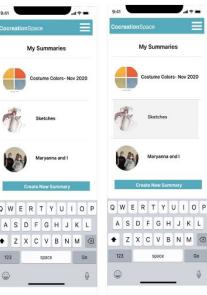










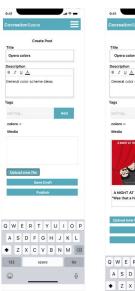




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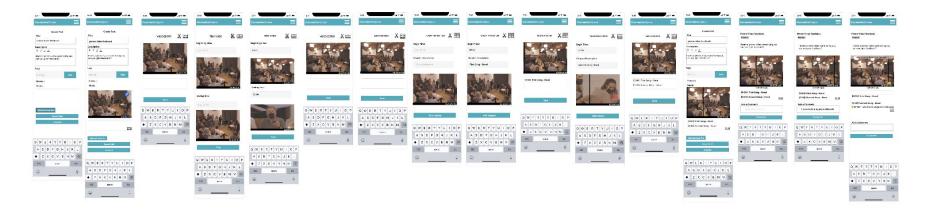


◆ Z X C V B N M ③

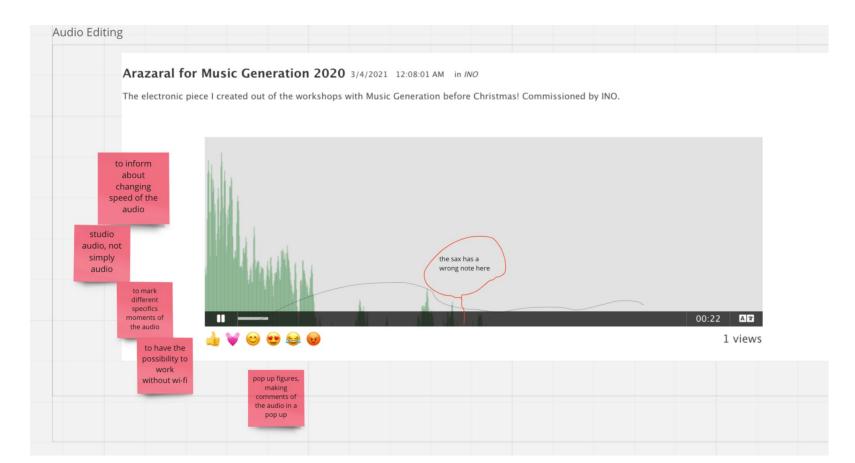








# 5 CODESIGN SESSIONS (YEAR 2)



# **USABILITY STUDY**

SCENARIO: You are working with a team member from [SINIA/MASSANA] on a poster for the branding representation of the opera. You are responsible for drawing the visual representation, and your partner is responsible for designing the layout of the text.

- 1) CREATE ACCOUNT & SELECT INTERESTS
- 2) RESPOND TO A COMMENT
- 3) CREATE NEW POST
- 4) PREVIEW TEXT/VISUAL TIMELINE
- 5) COMMENT ON VIDEO WITH EMOJIS AND TEXT

Think aloud protocol + survey questions + post-study interview

Metrics: Task success, errors, efficiency, SUS and SEQ



# USABILITY FINDINGS

Table 4. Average SEQ responses by task for the two participant groups.

Participants	Task1	Task 2	Task 3	Task 4	Task 5
Creatives	3	3.5	4.5	5.5	2
Students	5	5.6	6.4	5	4.4

**Usability:** Participants described the CCS as "**well thought-out** tool"; "**fast, easy to use**" and "simple...[because] it [focuses] on the co-creation process". As well as helping to "share ideas, or to stay up-to-date with other people's work," they saw it as an a**rchival "black box'**...when people do not agree...they can just go back to the post and see what they decided back in the day"

Social and Temporal Affordances: Participants were motivated by the social affordances of the tool, connection to another during co-creation, and asynchronous feedback, both for mentorship as well as for collaborative co-creation processes. Participants were able to see "the different steps of the creative process" and follow "the evolution of the work."

Supporting Reflection and Discussion: The CCS focused on simplicity, so a challenge was understand what features were central to reflection and discussion. Some participants extra media processing and scheduling features, but existing tools support these processes. A challenge was understanding how the value of the CCS fit within the creative app ecosystem.

# THE CO-CREATION SPACE

A PRIVATE SOCIAL MEDIA FOR REMOTE PARTICIPATORY ART.



### **OPEN PILOT TRIALS**





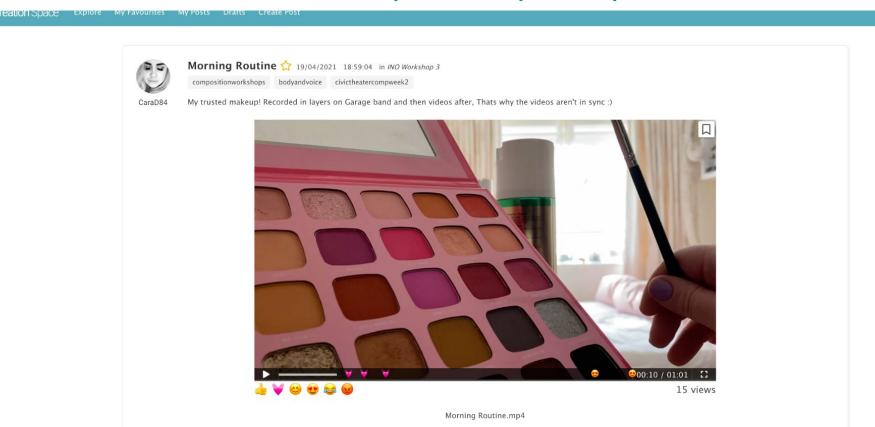
MATERIALS CO-CREATION:
INO COMPOSITION WORKSHOP

PERFORMANCE CO-CREATION: LICEU OPERA CHORUS

### COMPOSITION WORKSHOP

(12 week pilot, 13 participants)

△ 5 Notincations



### **OPERA CHORUS**

(43 week pilot, 206 participants)



Roda de Premsa La gata perduda 😭 28/09/2022 15:26:19 in LICEU Cors

esteu convidades i convidats a assistir, a partir de les 11:40h per C/Sant Pau.

Calvis

Estimades i estimats.

El proper divendres 30 de setembre a les 12h tindrà lloc la Roda de Premsa de La gata perduda, al Foyer del Liceu. A l'acte comptarem amb Arnau Tordera I, compositor; Victoria Szpunberg, dramaturga; Ricard Soler Mallol, director d'escena; Alfons Reverté, director musical; Cristina Colomer, coordinadora de cors; Montse Amenós, figurinista; Oscar Esteban, director Fundació Tot Raval; Núria Casanovas, gerent de Dona Kolors; Yacine Diop, membre de Top Manta; Àlex Chang, cantaire de Musicals' Choir; Pilar Garcia, cantaire de TrencaCors; Víctor Garcia de Gomar (director artístic Gran Teatre del Liceu) i Valentí Oviedo (director general del Liceu).

#### MOLTES GRÀCIES!

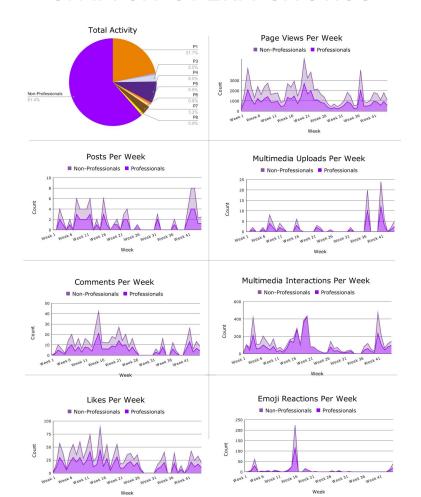




#### IRISH COMPOSITION WORKSHOP



#### SPANISH OPERA CHORUS



# TEXT CONTENT ANALYSIS

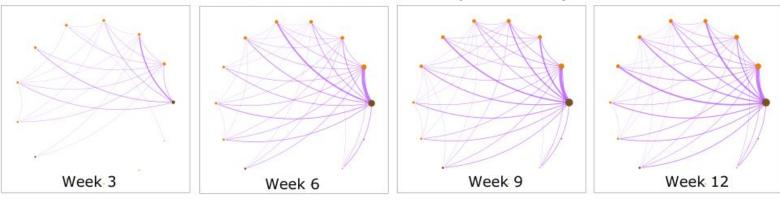
Category	Code Name	Description			
Technology	CCS Usability/Use	Comments on the interface or interactions with the tool.			
Technology	General Technology	Talking about technology in general.			
Focus on Media	Sharing/Explanation of Materials	Sharing/explanation of materials, referring to specific moments.			
Focus on Media	Art Process	Discussing art process, including the ideas about materials, resources or techniques. Includes reflection on how to improve or edit work, and asking/offering assistance about media.			
Focus on Media	Synthesis	Discussing synthesis process. Includes planning next steps with media, integrating/synthesizing media in the next step of co-creation, or synthesizing materials to use externally.			
Co-creation	Co-creation Process	High-level reflections on the co-creation process. Includes thinking about successful/unsuccessful moments of the process, next steps, or ways to improve it.			
Co-creation	Excitement/Thanks	Emotional response to process, including being excited or thankful for work being done, or for participating.			
Co-creation	Reflections on in-Person Events	Discussion or emotional responses to an event.			
Co-creation	Coordination	Discussion about coordination or planning.			
Social Media	Sharing Social Media	Sharing media about events, rehearsals, performances, or informal gatherings.			
Social Media	Responding to Social Media	Responding specifically to media about the social experience. This is different than reflecting on in-person events, because of the focus on the media.			
Miscellaneous	Personal communication	Comments unrelated to co-creation, such holiday greetings or discussion about life.			

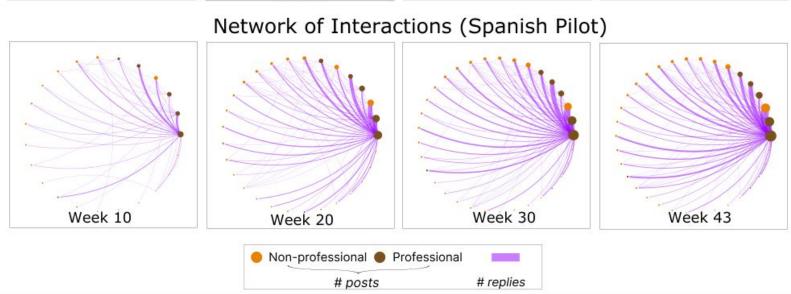
#### IRISH COMPOSITION WORKSHOP

#### SPANISH OPERA CHORUS



### Network of Interactions (Irish Pilot)





# POST-PILOT FOCUS GROUPS

Composition Workshop: Participants completed a sequence of creative tasks. Users felt that they were all "in the same room." The CCS "opened up a new world for creative expression that we didn't expect."

Opera Chorus: Spanish participants used the CCS to disseminate music files, broadcast information, and share social media about the opera. They felt the tool was redundant because they already had existing tools to do this.

- Lesson 1: Interaction visibility affects interaction feedback loop
- **Lesson 2: Clarity** of explicitly defined **interaction goals** affects tool value
- Lesson 3: With existing user groups, you must understand what other tools they are using
- Lesson 4: Hard to compare face-to-face vs. fully online experiences

# ARTISTIC CO-CREATION NEEDS BASED ON ACTIVITIES, SOCIAL STRUCTURE, & SIZE

Flexible Space Segmentation: Irish participants liked the simplicity of the text timeline, whereas Spanish participants had trouble finding files, and wanted clearly marked sections to separate technical from informal media. Artistic co-creation tools should support flexible space segmentation that allows communities to segment posts into distinct channels.

**Direct and Indirect Communication Channels:** Spanish participants wanted different types of communication channels that **differentiated official notifications from informal messages**. They also wanted a reading comprehension checker that participants read what was sent to them. For emotional experiences, they want indirect ways to express emotions, such as a **how-are-you-feeling rating system**.

Consider Features in Context of Existing App Ecosystem: Tensions exist between desire for privacy for discussion about co-creation process, vs. connection with existing social tools. Users were also biased by visual aesthetics of existing tools that did not fit co-creation goals.



# Technology, opera, and some amazing experiences:)



