

# Issue #14: 🚧 Co-Design Workshop Facilitator Manual

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## 🚧 Co-Design Workshop Facilitator Manual

### *Complete Guide to Facilitating Collaborative Solution Design Sessions*

**Tool Category:** Users & Stakeholders | **Phase:** Co-Creation | **Difficulty:** 📊 Intermediate

*Lead structured workshops where scientists, technical teams, and users collaboratively design Earth observation solutions that meet real-world needs.*

#### 📋 Tool Summary Card

Attribute	Value
🎯 <b>Purpose</b>	Facilitate collaborative sessions to align scientists and users around solution design and requirements
🕒 <b>Time Required</b>	1 day prep + half-day workshop + 2 hours follow-up
👥 <b>Participants</b>	6-12 people: users, scientists, technical team, subject matter experts
📊 <b>Outputs</b>	Shared solution concept, functional requirements, implementation roadmap, stakeholder buy-in
🔄 <b>Frequency</b>	1-2 workshops per project during co-creation phase
📁 <b>Materials</b>	Facilitation kit, templates, workspace (physical or virtual), documentation tools

#### 🎯 When to Use This Tool

✅ **Perfect For:**

- Bringing together diverse stakeholders to design solutions collaboratively
- Situations requiring alignment between technical capabilities and user needs
- Projects where stakeholder buy-in and ownership are critical for success

- Complex problems that benefit from multiple perspectives and expertise

#### ⚠️ Consider Alternatives When:

- Requirements are already well-defined and agreed upon
- Stakeholders cannot meet simultaneously due to scheduling/security constraints
- Very technical solutions with minimal user interface components
- Extremely tight timelines that don't allow for collaborative processes

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## 🔥 Workshop Planning & Design

### Pre-Workshop Planning (1 Week Before)

#### ## Co-Design Workshop Planning Checklist

**\*\*Workshop Date:\*\*** [Date] | **\*\*Facilitator:\*\*** [Name] | **\*\*Project:\*\*** [Project Name]

#### ### 🎯 Workshop Objectives & Scope

**\*\*Primary Objective:\*\*** [What you want to accomplish - be specific and measurable]

**\*\*Success Criteria:\*\*** [How you'll know the workshop was successful]

**\*\*Scope Boundaries:\*\*** [What you will and won't cover in this session]

#### **\*\*Key Questions to Answer:\*\***

- What should this Earth observation solution do?
- How should it integrate with existing user workflows?
- What are the most critical requirements and constraints?
- What would success look like for each stakeholder group?

#### ### 👥 Participant Selection & Preparation

**\*\*Target Participants (8-10 people optimal):\*\***

- **\*\*End Users\*\*** (3-4 people): [Specific roles who will use solution daily]
- **\*\*Decision Makers\*\*** (1-2 people): [Authority to approve and resource solution]
- **\*\*Technical Team\*\*** (2-3 people): [Scientists, developers, system architects]
- **\*\*Domain Experts\*\*** (1-2 people): [Subject matter expertise in problem area]
- **\*\*Facilitator & Support\*\*** (1-2 people): [Workshop leadership and documentation]

**\*\*Participant Preparation (Send 1 Week Before):\*\***

- [ ] Workshop agenda and objectives
- [ ] Background project information and context
- [ ] Pre-workshop survey (optional - see template below)
- [ ] Any relevant materials to review (user research, technical constraints, etc.)

#### ### 📦 Logistics & Materials

**\*\*Physical Space Requirements:\*\***

- [ ] Room for 8-12 people with moveable furniture
- [ ] Wall space for posting sticky notes and flip charts
- [ ] Projector/screen for presentations and shared viewing
- [ ] Good lighting and comfortable temperature
- [ ] Refreshments and breaks planned

**\*\*Virtual Space Requirements:\*\***

- [ ] Video conference platform that supports breakout rooms

- [ ] Digital whiteboard (Miro, Mural, Conceptboard)
- [ ] Screen sharing capabilities
- [ ] Recording setup (with permission)
- [ ] Backup communication channels (chat, phone)

**\*\*Materials & Supplies:\*\***

- [ ] Sticky notes (multiple colors) or digital equivalent
- [ ] Markers, pens, flip chart paper
- [ ] Workshop templates printed or digitally prepared
- [ ] Name tags/virtual name displays
- [ ] Timer for activities
- [ ] Camera for documentation

## Pre-Workshop Survey Template (Optional)

### ## Pre-Workshop Survey: [Workshop Name]

**\*\*Purpose:\*\*** Help us tailor the workshop to participant needs and expectations

#### ### Background & Expectations

1. **\*\*What's your primary role in relation to this project?\*\***

- [ ] End user who will use the solution
- [ ] Decision maker who will approve/fund the solution
- [ ] Technical team member who will build the solution
- [ ] Subject matter expert providing domain knowledge
- [ ] Other: \_\_\_\_\_

2. **\*\*What do you hope to accomplish in this workshop?\*\***

[Open response]

3. **\*\*What concerns or questions do you have about this project?\*\***

[Open response]

#### ### Current State & Context

4. **\*\*How do you currently handle [relevant problem area]?\*\***

[Open response]

5. **\*\*What tools or systems do you use for [relevant tasks]?\*\***

[Open response]

6. **\*\*What would an ideal solution look like from your perspective?\*\***

[Open response]

#### ### Workshop Logistics

7. **\*\*Any accessibility needs or accommodations?\*\***

[Open response]

8. **\*\*Preferred communication/collaboration style?\*\***

- [ ] Detailed discussion and analysis
- [ ] Visual brainstorming and sketching
- [ ] Structured frameworks and templates
- [ ] Open-ended creative exploration

***\*\*Thank you! We'll use this information to design a workshop that works for everyone.\*\****

## Workshop Structure & Facilitation Guide

### Workshop Agenda Template (4 hours)

#### ## Co-Design Workshop Agenda: [Project Name]

**\*\*Date/Time:\*\*** [Date, Start-End Times] | **\*\*Facilitator:\*\*** [Name] | **\*\*Location:\*\*** [Physical/Virtual]

#### ### 🎯 Opening & Alignment (30 minutes)

**\*\*9:00-9:30 AM\*\***

##### #### Welcome & Introductions (15 minutes)

**\*\*Facilitator Script:\*\*** "Welcome everyone. Today we're going to work together to design a solution that truly meets your needs and leverages our technical capabilities. The goal is to leave here with a shared vision and clear next steps."

##### **\*\*Round-Robin Introductions:\*\***

- Name, role, organization
- One sentence about what success would look like for you
- One word describing how you're feeling about this project

##### #### Ground Rules & Logistics (10 minutes)

##### **\*\*Establish Working Agreements:\*\***

- [ ] Everyone's input is valuable - no "wrong" ideas
- [ ] Build on each other's ideas rather than shutting them down
- [ ] Stay focused on the user problem, not predetermined solutions
- [ ] Be specific and concrete rather than abstract
- [ ] Respect time boundaries and speak concisely
- [ ] Ask for clarification when you don't understand something

##### **\*\*Logistics Review:\*\***

- Bathroom locations, break schedule
- How to get facilitator attention
- Note-taking and documentation approach
- Virtual etiquette (if applicable): mute when not speaking, use chat for questions

##### #### Context Setting (5 minutes)

##### **\*\*Quick Review:\*\***

- Project background and objectives
- What we know about user needs (from prior research)
- Technical capabilities and constraints
- What we need to decide today

#### ### 🔍 Problem Definition & Alignment (45 minutes)

**\*\*9:30-10:15 AM\*\***

#### #### Individual Problem Brainstorm (10 minutes)

**\*\*Instructions:\*\*** "On sticky notes, write down the specific problems this solution should solve. One problem per note. Think about your daily work - what's frustrating, time-consuming, or ineffective?"

**\*\*Facilitator Role:\*\***

- Keep time and energy up
- Encourage specificity: "Can you give me an example?"
- Remind people to write legibly
- Watch for people getting stuck and offer gentle prompts

#### #### Problem Clustering & Prioritization (25 minutes)

**\*\*Step 1 - Share & Cluster (15 min):\*\***

- Each person shares their problems (2-3 minutes each)
- Group similar problems together on wall/digital board
- Label each cluster with a theme

**\*\*Step 2 - Prioritize (10 min):\*\***

- Each person gets 3 dots to vote for most critical problems
- Discuss top 3-5 problem areas that emerged
- Confirm these are the problems we're trying to solve

**\*\*Facilitator Tips:\*\***

- Listen for underlying needs, not just stated problems
- Ask "Why is that a problem?" to get to root causes
- Watch for technical team trying to jump to solutions too quickly
- Ensure all voices are heard, manage dominant personalities

#### #### Success Vision Alignment (10 minutes)

**\*\*Question:\*\*** "If we solve these problems really well, what would success look like 6 months from now?"

**\*\*Process:\*\***

- Quick round-robin sharing (1 minute per person)
- Capture key themes on flip chart
- Identify areas of alignment and any tensions

#### ### ☕ Break (15 minutes)

**\*\*10:15-10:30 AM\*\***

#### ### 🧠 Solution Concept Development (60 minutes)

**\*\*10:30-11:30 AM\*\***

#### #### Solution Brainstorm (20 minutes)

**\*\*Instructions:\*\*** "Now we brainstorm how we might solve these priority problems. Think broad and creative - we'll evaluate feasibility later."

**\*\*Individual Brainstorm (10 min):\*\***

- Generate solution ideas on sticky notes
- Encourage wild ideas and building on others' concepts
- Focus on "How might we..." framing

**\*\*Share & Build (10 min):\*\***

- Post all ideas on wall/board
- Allow people to add to or modify others' ideas
- Group related concepts together

**#### Concept Development (40 minutes)**

**\*\*Step 1 - Select Promising Concepts (10 min):\*\***

- Dot voting on most promising solution directions
- Select top 2-3 concepts for further development
- Form small groups around each concept (3-4 people per group)

**\*\*Step 2 - Concept Sketching (20 min):\*\***

Each group develops their concept:

- What does the solution do?
- How do users interact with it?
- What are the key components/features?
- How does it integrate with existing workflows?
- Quick sketch or diagram of the concept

**\*\*Step 3 - Concept Presentations (10 min):\*\***

- Each group presents their concept (3 minutes + 1 minute Q&A)
- Focus on user experience and value proposition
- Note questions and concerns raised

**### 🛠 Requirements & Constraints Workshop (45 minutes)**

**\*\*11:30 AM-12:15 PM\*\***

**#### Functional Requirements Definition (25 minutes)**

**\*\*Template on Flip Charts/Digital Board:\*\***

SOLUTION CONCEPT: [Name]

**MUST HAVE (Critical for success):**

-

**SHOULD HAVE (Important but not critical):**

-

**COULD HAVE (Nice to have if resources allow):**

•

**\*\*Process:\*\***

- Work as full group to define requirements for preferred concept
- Use MoSCoW method (Must, Should, Could, Won't have this time)
- Technical team provides feasibility input as requirements are discussed
- Focus on WHAT the solution needs to do, not HOW to build it

#### #### Constraint Identification (20 minutes)

##### \*\*Categories to Explore:\*\*

- \*\*Technical:\*\* Infrastructure, security, performance, integration
- \*\*Organizational:\*\* Policies, approval processes, resource limitations
- \*\*User:\*\* Time, training, workflow integration, accessibility
- \*\*Timeline:\*\* Critical deadlines, seasonal factors, dependency timing

##### \*\*Process:\*\*

- Brainstorm constraints by category
- Assess impact: Does this constraint change our solution concept?
- Identify which constraints are flexible vs. fixed
- Note constraints that need further research

#### ### 🍽️ Lunch Break (45 minutes)

\*\*12:15-1:00 PM\*\*

#### ### 📅 Implementation Planning (60 minutes)

\*\*1:00-2:00 PM\*\*

#### #### User Journey Mapping (30 minutes)

\*\*Instructions:\*\* "Let's map out how users will actually interact with this solution in their real work."

##### \*\*Template:\*\*

USER JOURNEY: [Typical use scenario]

TRIGGER: [What starts this process?]

STEPS:

1. User does: \_\_\_\_ | System does: \_\_\_\_ | Needs: \_\_\_\_
2. User does: \_\_\_\_ | System does: \_\_\_\_ | Needs: \_\_\_\_
3. User does: \_\_\_\_ | System does: \_\_\_\_ | Needs: \_\_\_\_

OUTCOME: [What user accomplishes]

PAIN POINTS: [Where could things go wrong?]

SUCCESS FACTORS: [What makes this work well?]

##### \*\*Process:\*\*

- Work through 1-2 key user scenarios
- Include technical team to assess feasibility of each step
- Identify integration points with existing systems
- Note areas where user training might be needed

#### #### Development & Deployment Planning (30 minutes)

##### \*\*High-Level Roadmap:\*\*

- \*\*Phase 1:\*\* [What gets built first? Timeline?]
- \*\*Phase 2:\*\* [What comes next? Dependencies?]
- \*\*Phase 3:\*\* [Future enhancements? Conditions?]

#### **\*\*Stakeholder Roles & Responsibilities:\*\***

- **\*\*Users:\*\*** [What ongoing involvement is needed?]
- **\*\*Technical Team:\*\*** [Key development responsibilities?]
- **\*\*Decision Makers:\*\*** [Approval points and resource needs?]
- **\*\*Subject Matter Experts:\*\*** [Ongoing consultation needs?]

#### **### 🎯 Next Steps & Commitment (30 minutes)**

**\*\*2:00-2:30 PM\*\***

#### **#### Decision Documentation (15 minutes)**

##### **\*\*Capture Key Decisions:\*\***

- **\*\*Solution Concept:\*\*** [One paragraph description of what we're building]
- **\*\*Priority Requirements:\*\*** [Top 5 must-have requirements]
- **\*\*Key Constraints:\*\*** [Major limitations we must work within]
- **\*\*Success Criteria:\*\*** [How we'll know this is working]

#### **#### Action Planning (10 minutes)**

##### **\*\*Next Steps Template:\*\***

Action Item	Owner	Deadline	Dependencies
[Specific action]	[Name]	[Date]	[What's needed]
[Specific action]	[Name]	[Date]	[What's needed]

##### **\*\*Focus on:\*\***

- Technical feasibility validation
- Additional user research needed
- Stakeholder approval processes
- Next collaboration touchpoint

#### **#### Commitment & Feedback (5 minutes)**

##### **\*\*Round-Robin Closing:\*\***

- One word describing how you feel about what we've accomplished
- One thing you're committed to doing before our next interaction
- One suggestion for improving workshops like this

##### **\*\*Logistics:\*\***

- When participants will receive session summary
- Next meeting/touchpoint planned
- How to reach facilitator with questions

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## **🎯 Facilitation Techniques & Best Practices**

### **Managing Group Dynamics**

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#### **🗣️ Encouraging Participation from All Voices**

##### **Techniques for Quiet Participants:**

- **Direct but gentle invitations:** "Sarah, what's your experience with this type of process?"
- **Small group work:** Break into pairs or triads before large group sharing
- **Written input:** Use sticky notes or surveys to gather input before discussion



- **Role-based perspectives:** "From the [specific role] perspective, what would you add?"

#### Managing Dominant Personalities:

- **Time boundaries:** "Thanks, John. Let's hear from someone who hasn't spoken yet."
- **Redirect energy:** "That's great input. Can you help facilitate the next activity?"
- **Private conversation:** Pull aside during break to ask for help drawing others out
- **Structured sharing:** Use round-robin or other structured formats

#### Building on Ideas:

- **"Yes, and..." mindset:** "That's interesting. How might we build on that?"
  - **Connect concepts:** "I'm hearing themes of X and Y. How do those relate?"
  - **Encourage expansion:** "Can you say more about that?" or "What would that look like?"
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### Keeping Energy and Focus

#### Energy Management:

- **Vary activity types:** Mix individual work, small groups, and large group discussion
- **Physical movement:** Have people move around room, change seats, work at walls
- **Time variety:** Alternate between short bursts (5-10 min) and longer activities (20-30 min)
- **Break timing:** Watch for energy drops and call breaks proactively

#### Focus Maintenance:

- **Visible objectives:** Keep workshop goals posted and reference them
- **Parking lot:** Capture important but off-topic items for later discussion
- **Time awareness:** Use timers and give time warnings ("5 minutes left")
- **Redirect gently:** "That's important. How does it relate to our goal of...?"

#### Dealing with Tangents:

- **Acknowledge value:** "That's a great point about X. Let me capture that."
  - **Bridge back:** "That connects to what we're discussing because..."
  - **Defer appropriately:** "Can we come back to that in our next steps discussion?"
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### Managing Conflict and Disagreement

#### When Technical and User Perspectives Clash:

- **Understand the root:** "Help me understand why this is important to you"
- **Find common ground:** "It sounds like you both care about [shared value]"
- **Explore alternatives:** "What if we approached this differently?"
- **Test assumptions:** "What would we need to believe for that to work?"

#### When Users Disagree Among Themselves:

- **Explore differences:** "It sounds like your workflows might be different. Can you both describe your process?"
- **Look for patterns:** "Are there certain situations where approach A works better than approach B?"
- **Design for flexibility:** "How might we create a solution that works for both scenarios?"

#### When Ideas Seem Technically Impossible:

- **Don't shut down immediately:** "That's an interesting idea. What would need to be true for that to work?"
- **Explore alternatives:** "The technical approach might be challenging, but what if we achieved the same user outcome differently?"
- **Defer technical details:** "Let's capture this as a requirement and explore implementation options later"



## Documentation & Follow-Up

### Real-Time Documentation Template

```
## Workshop Documentation: [Project Name] - [Date]
**Facilitator:** [Name] | **Note Taker:** [Name] | **Participants:** [List]

### 🎯 Key Decisions Made
**Solution Concept:**
[2-3 sentence description of what we're building]

**Priority Problems to Solve:**
1. [Problem description with user impact]
2. [Problem description with user impact]
3. [Problem description with user impact]

**Must-Have Requirements:**
- [Requirement 1 with rationale]
- [Requirement 2 with rationale]
- [Requirement 3 with rationale]

**Critical Constraints:**
- [Constraint 1 with implications]
- [Constraint 2 with implications]

### 💬 Key Quotes & Insights
**User Needs:**
- "[Quote about user workflow or pain point]" - [Speaker role]
- "[Quote about success criteria]" - [Speaker role]

**Technical Considerations:**
- "[Quote about technical feasibility or constraints]" - [Speaker role]
- "[Quote about integration requirements]" - [Speaker role]

**Organizational Factors:**
- "[Quote about adoption requirements or change management]" - [Speaker role]

### 📝 Action Items
| Action | Owner | Deadline | Success Criteria |
|-----|-----|-----|-----|
| [Specific next step] | [Name] | [Date] | [How we'll know it's done] |
| [Specific next step] | [Name] | [Date] | [How we'll know it's done] |
```

### ### 🔄 Next Steps

#### **\*\*Immediate (1-2 weeks):\*\***

- [What happens right away]

#### **\*\*Short-term (1 month):\*\***

- [Next major milestone or touchpoint]

#### **\*\*Medium-term (2-3 months):\*\***

- [Where we expect to be in development]

### ### ? Outstanding Questions

- [Question that needs research or follow-up]
- [Decision that needs to be made later]
- [Assumption that needs validation]

### ### 📊 Workshop Feedback

#### **\*\*What Worked Well:\*\***

- [Participant feedback on effective elements]

#### **\*\*What Could Be Improved:\*\***

- [Suggestions for future workshops]

**\*\*Energy/Engagement Level:\*\*** [High/Medium/Low with notes]

## Post-Workshop Follow-Up Process

### ## Post-Workshop Follow-Up Checklist

#### ### Within 24 Hours

- [ ] Send thank you email to all participants
- [ ] Distribute workshop summary with key decisions and action items
- [ ] Schedule individual follow-ups with key stakeholders if needed
- [ ] Update project documentation with workshop outcomes

#### ### Within 1 Week

- [ ] Follow up on immediate action items and provide support as needed
- [ ] Begin work on any commitments made during workshop
- [ ] Schedule next collaborative session if appropriate
- [ ] Share workshop outcomes with broader stakeholder community

#### ### Within 2 Weeks

- [ ] Check progress on action items and provide assistance where needed
- [ ] Begin incorporating workshop decisions into project plans and timelines
- [ ] Validate any assumptions or decisions that emerged from workshop
- [ ] Plan for next phase of co-design activities

#### ### Follow-Up Email Template

Subject: Thank you + Next Steps from [Project Name] Co-Design Workshop

Hi everyone,

Thank you for your excellent participation in yesterday's co-design workshop. Your insights and collaboration resulted in [key achievement from workshop].

## ## What We Accomplished

- [Key decision 1]
- [Key decision 2]
- [Key decision 3]

## ## Your Action Items

[Personalized list for each recipient]

## ## My Commitments

- [What facilitator/project team committed to do]

## ## Next Steps

Our next major milestone is [next touchpoint] planned for [timeframe]. I'll keep you updated on progress and reach out as we need your input.

## ## Questions?

Please don't hesitate to reach out if you have questions, concerns, or additional ideas.

Thanks again for your partnership in this process!

[Facilitator name and contact information]

**\*\*Attached:\*\*** Workshop summary document

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## Integration with Other Co-Design Tools

### This Workshop Uses:

- [Stakeholder Mapping Workshop](#) - Participant identification and relationship understanding
- [Discovery Interview Blueprint](#) - Pre-workshop user insights and context
- [Context Analysis Framework](#) - Understanding organizational and technical constraints

### This Workshop Produces:

- Input for [Requirements Definition Canvas](#) - Detailed requirements specification
- Input for [User Journey Mapping Kit](#) - Workflow integration planning
- Input for [User Testing Protocol](#) - Understanding of user tasks and success criteria

### This Workshop Integrates With:

- [Co-Design Project Planning Template](#) - Workshop timing and resource allocation
- [Touchpoint Scheduling Framework](#) - Part of systematic engagement approach
- [Progress Communication Dashboard](#) - Workshop outcomes and stakeholder engagement

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## Source Attribution

### Primary Sources:

- **SERVIR Service Design Tool 2021** - Workshop structure and collaborative planning methodology
- **Solution Co-Development Toolkit Narrative** - User-centered collaborative design processes
- **NSITE Solution Project Requirements and Expectations** - Stakeholder engagement and co-design approach

#### Supporting Sources:

- **MSFC Coordination on Solutions Co-Development Toolkit** - Multi-stakeholder coordination and facilitation
- **SERVIR Stakeholder Mapping Tool 2021** - Participant engagement and relationship management

#### Methodology Foundation:

- Design thinking workshop facilitation best practices
- Participatory design methodologies from human-computer interaction research
- Group facilitation techniques adapted for technical and scientific contexts

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## Community Discussion

#### Share your facilitation experience:

- What workshop formats work best for your stakeholder mix?
- How do you adapt workshops for virtual vs. in-person collaboration?
- What techniques help balance technical feasibility with user needs?
- How do you maintain momentum and engagement in longer collaborative sessions?

#### Manual improvements:

- What facilitation scenarios would you add for specific Earth observation contexts?
- How do you handle workshops with participants from different organizational cultures?
- What tools or techniques work best for documenting and sharing workshop outcomes?

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 **Tool Maintainer:** @your-username |  **Last Updated:** [Today's Date] |  **Version:** 1.0