

Issue #14: Co-Design Workshop Facilitator Manual

Repository: CherrelleTucker/codesign-toolkit **URL:**

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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
 Purpose	Facilitate collaborative sessions to align scientists and users around solution design and requirements
 Time Required	1 day prep + half-day workshop + 2 hours follow-up
 Participants	6-12 people: users, scientists, technical team, subject matter experts
 Outputs	Shared solution concept, functional requirements, implementation roadmap, stakeholder buy-in
 Frequency	1-2 workshops per project during co-creation phase
 Materials	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

🏡 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.****

July 17 | 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?]

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**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

👥 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?"

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?"

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

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

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

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?

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