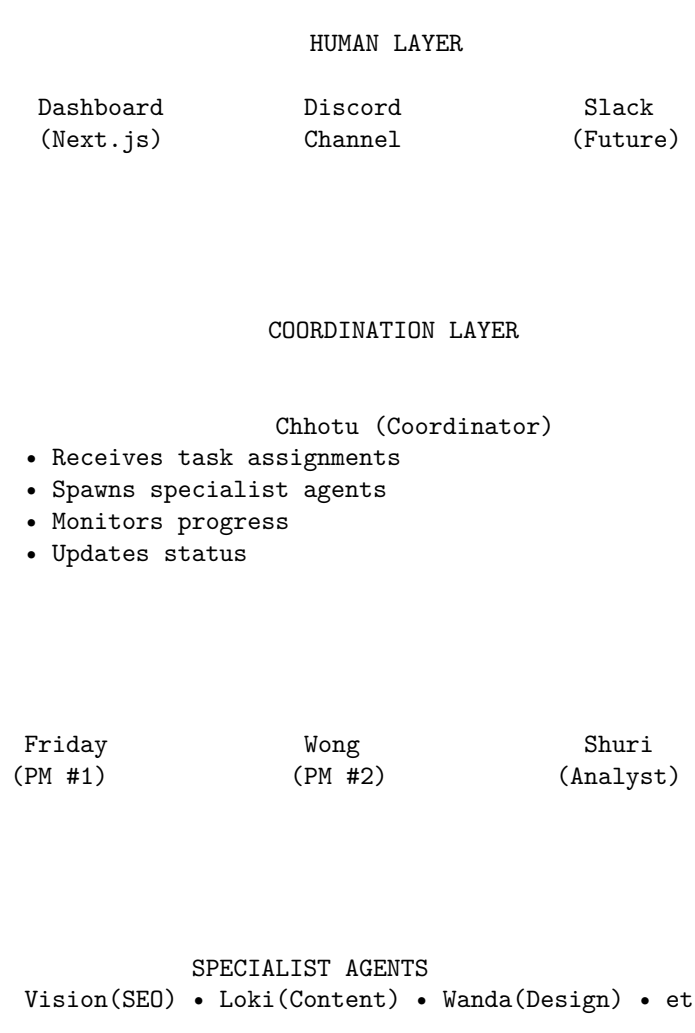
Mission Control — Presentation Guide

Executive Summary

Mission Control is an AI-native project management system where multiple AI agents collaborate to ship software — with built-in safeguards against AI groupthink and sycophancy.

System Architecture



DATA LAYER

Supabase (PostgreSQL)

- Projects, Tasks, Sprints
- Proposals, Opinions, Debates
- Activity Logs
- Real-time Subscriptions

Flow 1: Task Lifecycle

Human/PM
Creates Task

BACKLOG
(Unsorted)

SPRINT
(Planned)

ASSIGNED
to Agent

IN PROGRESS
(Working)

BLOCKED
(Stuck)

REVIEW
(PR Open)

DONE
(Shipped!)

Demo Points: - Show Kanban board with drag-drop between columns - Show List View with filters and sorting - Click task → Side panel opens with details - Cmd+K → Command palette for quick actions

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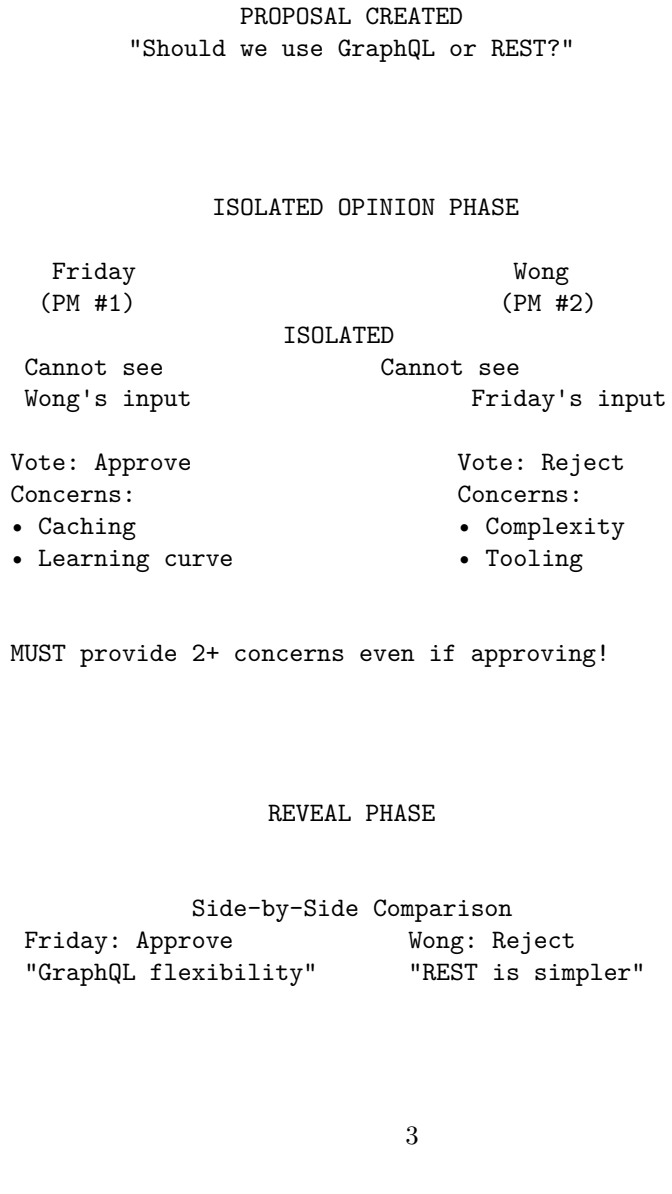
Flow 2: Anti-Groupthink Protocol

The Problem: AI agents tend to agree with each other (sycophancy), leading to poor decisions.

The Solution: Forced independent thinking + mandatory critique.



```
            Concerns Matrix
Concern            Friday   Wong

Caching issues
Learning curve
Complexity
Tooling gaps
```

```
CONSENSUS REACHED              DISAGREEMENT
(Both agree)                   (Debate needed)
```

```
                        DEBATE ROUNDS
                        (Max 3 rounds)

                    Round 1: Revise opinions
                    Round 2: Address concerns
                    Round 3: Final positions
```

```
                RESOLVED                    ESCALATED
              (Agreement)                  (To Human)
```

Demo Points: - Show proposal creation modal - Explain isolated input (can't see other opinions) - Show 2+ concerns requirement - Show reveal view with side-by-side comparison - Show sycophancy banner (auto-detection)

Flow 3: Sycophancy Detection

```
                AUTOMATIC FLAGS TRIGGERED
```

```
Flag: INSTANT_CONSENSUS

Both PMs approved within 60 seconds
→ Suspiciously fast for complex decision


Flag: NO_CONCERNS

Zero concerns raised across all opinions
→ Every decision has tradeoffs


Flag: IDENTICAL_REASONING

Reasoning text is >80% similar
→ Agents may be echoing each other


Flag: UNANIMOUS_COMPLEX

Instant unanimous agreement on complex topic
→ Complex decisions should have debate
```

```
  SYCOPHANCY WARNING

This proposal was flagged for potential groupthink.
Reason: instant_consensus

Human review required before proceeding.

[Review] [Override] [Request Re-vote]
```

Demo Points: - Show the sycophancy banner component - Explain why this matters (AI safety) - Show escalation queue for human review

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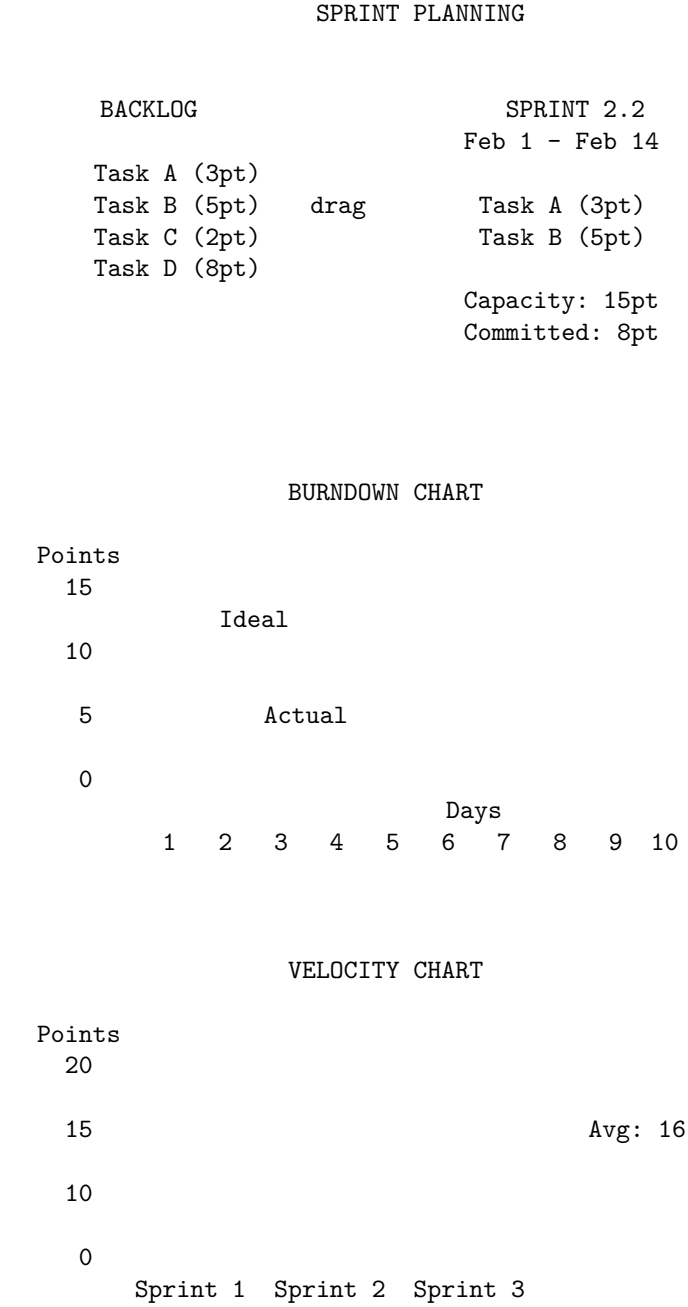
Flow 4: Sprint & Agile



Demo Points: - Show sprint planning page - Drag tasks from backlog to sprint - Show burndown chart (tracks progress) - Show velocity chart (team capacity) - Show sprint goals display

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Key Talking Points

1. Why This Matters

- **AI agents can ship software** — but need coordination
- **Traditional PM tools** aren't designed for AI workers
- **Sycophancy is a real problem** — AIs agree too easily
- **Humans need visibility** — can't just trust AI decisions

2. What's Different

Traditional PM	Mission Control
Human assignees	AI agent assignees
Manual status updates	Auto-updates from agent activity
No decision audit	Full proposal/debate trail
Trust by default	Verify with anti-groupthink

3. The Tech Stack

- **Frontend:** Next.js 16, React 19, Tailwind, shadcn/ui
- **Backend:** Supabase (PostgreSQL + Realtime)
- **Agents:** Clawdbot (Claude-based)
- **Charts:** Recharts

4. What's Built (Today)

- Project/Task management (Kanban + List views)
- Sprint planning with burndown/velocity
- Anti-groupthink proposal system
- Sycophancy detection
- Real-time updates
- Agent integration (Phase 5)

5. What's Next

1. **Agent Integration** — Bots can read/write tasks
2. **Auto-spawning** — Assign task → agent starts working
3. **Activity logging** — See what every agent did
4. **Discord notifications** — Key events posted to channel
5. **Cloudflare hosting** — Access from anywhere

Demo Script

Scene 1: Dashboard Overview (2 min)

1. Open dashboard at `http://100.90.184.70:3000`
2. Show project list
3. Click into "Mission Control" project
4. Toggle between Kanban and List views
5. Use Cmd+K to show command palette
6. Filter by status/assignee

Scene 2: Task Management (2 min)

1. Click a task → side panel opens
2. Show task details, comments, activity
3. Drag task between columns
4. Show inline editing

Scene 3: Sprint Planning (2 min)

1. Navigate to Sprints page
2. Show sprint cards with goals
3. Open backlog view
4. Drag task to sprint
5. Show burndown and velocity charts

Scene 4: Anti-Groupthink (3 min)

1. Navigate to Proposals
2. Create new proposal
3. Explain isolated voting
4. Show 2+ concerns requirement
5. Show reveal view with comparison
6. Show sycophancy detection banner
7. Explain escalation flow

Scene 5: Future Vision (1 min)

1. Explain Phase 5 integration
2. "Assign task → Agent auto-starts"
3. "Everything tracked, nothing hidden"

Screenshots to Capture

1. Dashboard home with project cards
2. Kanban board with tasks

3. List view with filters active
4. Task side panel
5. Command palette open
6. Sprint planning page
7. Burndown chart
8. Velocity chart
9. Proposal creation modal
10. Opinion submission form (show concerns requirement)
11. Reveal view with side-by-side
12. Sycophancy warning banner

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