

# Workflow Integration

Data Flow and Execution Pipeline

The workflow is a linear pipeline with recursive feedback loops, designed to move from raw text to structured video directives.

## Integration Flow

The following steps outline the transformation of a raw text chapter into a series of production-ready video generation prompts and metadata.

### Step 1: The Profiler (Pre-processing)

The first stage builds the “Story Bible.” An agent rips through the full text to identify every recurring entity and location.

1

#### The Profiler

##### PRE-PROCESSING PHASE

**INPUT** Full Book Text

**ACTION** Identify Characters & Locations

**OUTPUT** characters.json locations.json

### Step 2: The Chunking Engine

Once assets are defined, the chunking engine segments the text into 8-10 second beats, weighting them based on narrative density.

2

#### The Chunking Engine

##### SEGMENTATION PHASE

**INPUT** Chapter\_01.md

**ACTION** Time-Weighted Segmentation

**OUTPUT** Chapter\_01\_chunks.json

## Step 3: The Continuum Flow

This is the core context enrichment cycle. For every chunk, the agent queries the “Backbone” to inject character details and state information.

3

### The Continuum Flow

#### CONTEXT ENRICHMENT

**INPUT** Chunk N + Context Backbone

**ACTION** Enrich with visual descriptors

**OUTPUT** Enriched Prompt N

## Step 4: The Director Agent

The Director translates narrative prose into technical camera direction (Shot types, angles, lens info).

4

### The Director Agent

#### TECHNICAL TRANSLATION

**INPUT** Enriched Prompt N

**ACTION** Generate Camera Directives

**OUTPUT** directives/Scene\_01\_Seg\_N.json

## Step 5: Context Update

Finally, the system compresses the events of the current chunk to update the Level 1/2 summaries for future retrievals.

5

## Context Update

### CLOSING THE LOOP

**INPUT** Chunk N Narrative

**ACTION** Recursive Summarization

**OUTPUT** Updated Backbone

## Agentic Workflow Expansion: The “Production Studio” Model

### GLOBAL ORCHESTRATOR



#### The Showrunner

The “Brain” that manages priorities. Pauses production if new context (e.g., a new character) is discovered.

### FEEDBACK LOOP



#### The QA Critic

The “Editor” that rejects bad prompts. Enforces strict character consistency before rendering.

### CONTEXT SWARM



#### Writers’ Room

Parallel agents mining the text for “Story Bible” data. Resolves cross-chapter conflicts.

### VISUAL ASSETS



## Art Department

Casting Agents & Location Scouts generating reference images and LoRAs asynchronously.

### 1. The Missing Link: Autonomy & Feedback

Our initial architecture defined a linear pipeline—a conveyor belt. While efficient, it lacks the resilience of a true Agentic AI system. In a real-world deployment, the system must handle ambiguity, errors, and parallel tasks without human intervention. The “Missing Link” is **The Feedback Loop (The Critic)** and **Asynchronous Orchestration**.

### 2. The Core Agentic Roles

Instead of a single “Process,” we define distinct autonomous agents functioning as a digital film crew.

#### A. The Showrunner (Global Orchestrator)

**Role:** The “Brain” of the operation.

- **Agentic Action:** Scans the book. Assigns “Job Tickets” to other agents.
- **Crucial Capability: Dynamic Re-prioritization.** If Chapter 3 reveals a new main character, it pauses the Scene Generators.

#### B. The Art Department (Parallel Pre-Production)

**Role:** Visual Asset Generators.

- **Workflow:** Casting Agent generates Reference Images; Location Scout generates Environment LoRAs.

#### C. The Writers’ Room (Context Swarm)

**Role:** The “Continuum Flow” Implementation.

- **Agentic Action:** Parallel summarization with cross-chapter reconciliation.

#### D. The QA Critic (The Feedback Loop)

**Role:** The “Editor.”

- **Workflow:** Rejecting bad prompts and forcing retries until output matches character state.

## 4. Summary of Improvements

Feature	Linear Pipeline (Old)	Agentic Swarm (New)
Processing	Sequential (Slow)	Asynchronous / Parallel (Fast)
Error Handling	Fails at end of pipe	Self-corrects mid-stream (Critic)
Context	Passive Retrieval	Active Reconciliation (Showrunner)
Cost	Wasted on bad prompts	Saved by QA rejection before render