
AI Agent Research Notebook Automation System

Installation & User Guide

AAA-RNS · AI Agent-driven Autonomous Research Notebook System

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Applies to	v2.0
Issued	August 2026
Developed by	Seung Ho Jung
Audience	Note authors, reviewers, and the Data Custodian

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1. Before You Begin

1.1 What this software does

AAA-RNS automates the writing of electronic research notes for R&D projects. Upload an R&D plan and a metrics table, and the system analyses the project structure (title, period, work packages, metrics) and builds a note-writing environment dedicated to that project. From then on, uploading experiment logs and measurement data is enough for a draft note to be written automatically.

The design principle is a system in which **falsehood cannot be written**. Every sentence carries an evidence number `[E#]` issued from the uploaded source material, and four verification gates (G1-G4) automatically block unevidenced statements, contradictions with past records, numeric errors, and compliance gaps. A sealed note is protected by a hash chain that covers both the content and the signatures, so any later alteration is detected immediately.

No internet connection and no separate server are required. All records stay inside the folder your company designates and are never transmitted outside. The interface is available in Korean, English, and Japanese.

1.2 System requirements

Operating system	macOS 12 or later, or Windows 10 or later
Browser	Chrome or Edge (latest recommended) — the shared-folder feature works only in these two
Additional software	None (macOS uses its built-in Python; Windows uses its built-in PowerShell)
Disk space	About 1 MB for the program, plus your records (proportional to the uploaded originals)
Network	Not required — fully offline (only the optional AI polishing feature contacts an AI service)

1.3 Conventions used in this guide

Buttons appear as `Start analysis`, keyboard input as `Cmd + Shift + R`, and file or folder names as `start_mac.command`. Points worth checking are placed in "Note" boxes; actions that are hard to undo are placed in "Caution" boxes.

2. Installation

2.1 Getting the files

For the Community edition, the installer archive is all you need.

1. The installer archive: `AAA-RNS_v2.0.zip`
2. (Enterprise builds only) the license key you were issued: one long line of text, or a `.lic` file — see section 3.2

2.2 Unzipping is the installation

Unzip the downloaded archive wherever you like; that completes the installation. No installer and no administrator rights are needed. Unzipping produces the following files.

<code>start_mac.command</code>	Mac launcher — double-click this
<code>start_windows.bat</code>	Windows launcher — double-click this
<code>INSTALL.txt</code>	One-page quick reference
<code>sample_docs/</code>	Sample documents for a trial run
<code>index.html</code> , <code>js/</code> , <code>css/</code> , <code>agents/</code>	The program itself (do not modify)

2.3 Where to put the folder

Put the program folder wherever is convenient on each PC. What a team shares is not the program but the **records**, and those are designated with "Connect shared folder" in section 3.4. The standard arrangement is therefore: the program on each PC, the records in one folder on the company drive.

3. First Run and Initial Setup

3.1 Starting the program

Mac — double-click `start_mac.command`. The first time, macOS may warn about an unidentified developer. If so, right-click the file, choose **Open**, then click **Open** again.

Windows — double-click `start_windows.bat`. If SmartScreen appears, click **More info** and then **Run anyway**.

A black server window opens and a browser follows automatically (address `http://localhost:8777`). The server window is the engine — leave it open while you work. It listens only on your own PC and is not exposed externally. Its messages are in English regardless of the interface language: terminal fonts cannot be relied on to render Korean or Japanese, and English is better than mojibake.

3.2 The first screen and licensing

This build is the **Community edition**. There is no registration key to enter: starting the program takes you straight to step 1 of onboarding — uploading your research documents — as shown in Figure 3-1. No activation and no online check stand between you and the first screen.

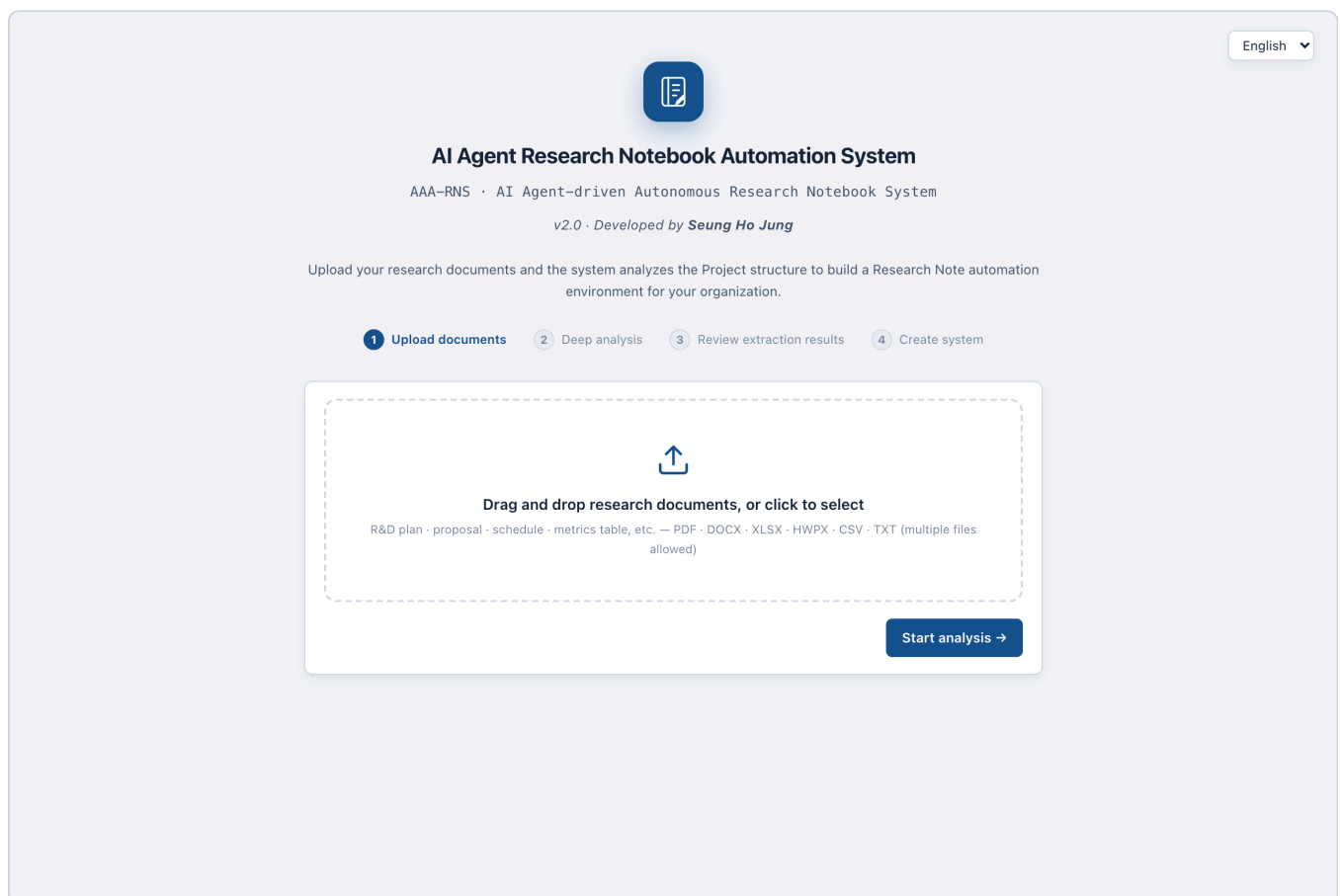


Figure 3-1 The very first screen after starting the program. The Community edition goes straight to onboarding step 1, with no registration. The selector at the top right changes the language.

1. **Community edition** — no key is required. Start the program and go on to section 4.1 to upload your research documents.
2. **Enterprise builds** — issued to a specific company or institute, these ask for a signed license key on the first screen. Paste the key into the field, or choose the key file with **Select .lic file**, then press **Register**. Verification is a digital-signature check and completes instantly, offline.

Note The Community edition places no limit on the number of projects you create. An enterprise build does: one license covers exactly one research project, and the moment you create the first project the key is bound to that project number, so a different project requires a new key (a system reset does not clear that binding). Licensing is the only difference between the two builds — note writing, verification, and sealing are identical.

3.3 Choosing a language

On first run the interface language is **chosen automatically from your browser (operating system) language** — Korean in a Korean environment, 日本語 in a Japanese one, English otherwise. You can change it at any time with the selector at the top right of the first screen; the choice is saved for later runs, and the browser tab title follows it too. Once inside the application, the selector at the top right of the screen takes over the same role.

3.4 Initial setup — name, PIN, shared folder

Once onboarding is complete the initial-setup dialog appears. Register the name and e-mail that will be used for note signatures, plus a confirmation PIN of at least four digits.

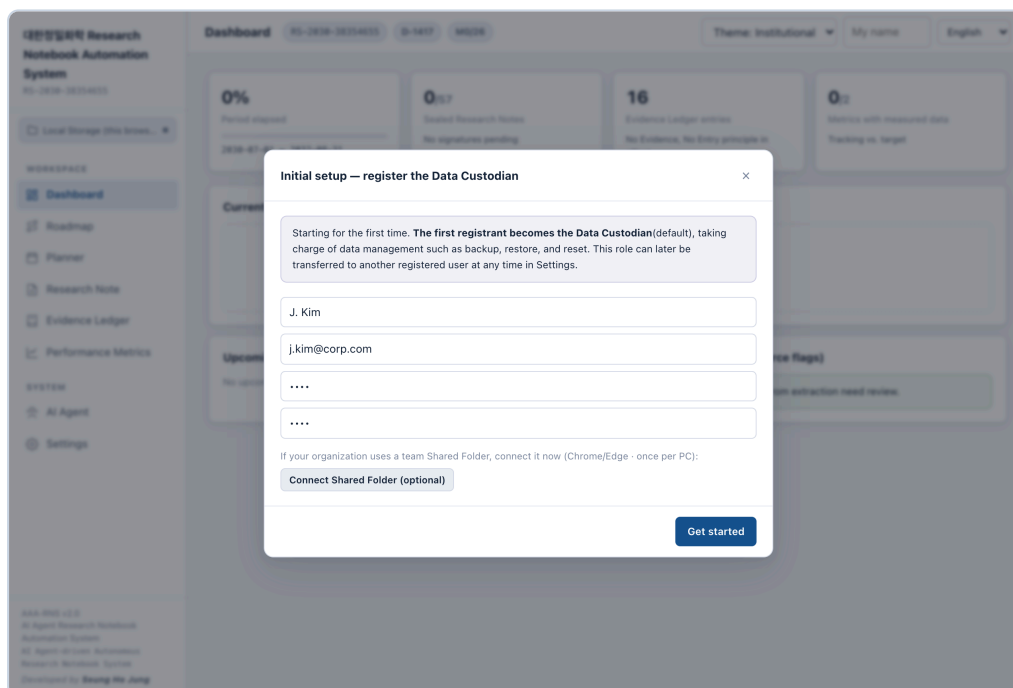


Figure 3-2 The initial-setup dialog. The first person to register becomes the Data Custodian.

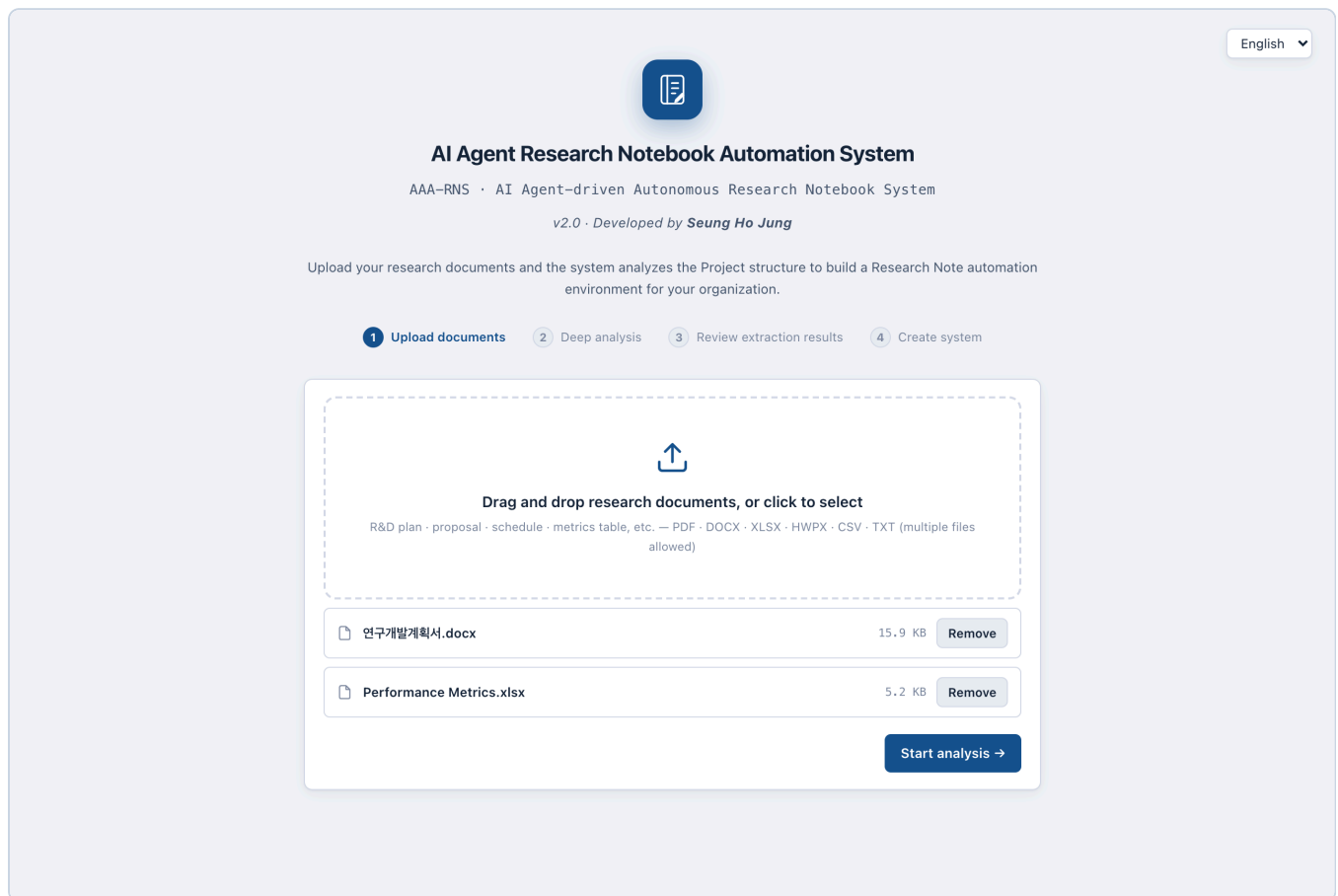
The first person to register becomes the **Data Custodian** (the default) and holds the backup, restore, and reset permissions. That role can be transferred to another registered user at any time from Settings (section 8.3). If your

company uses a shared folder, use **Connect shared folder** in this dialog to designate a folder on the company drive. This is done once per PC, and the connected storage is always shown at the top of the left menu.

4. Creating a Project

4.1 Uploading research documents

On first entry a four-step onboarding begins. In the first step, drag the documents that describe the project — R&D plan, proposal, metrics table — onto the dashed box (several at once is fine). PDF, Word (DOCX), Excel (XLSX), Hangul (HWPX), CSV, and TXT can be read.



The screenshot shows the 'AI Agent Research Notebook Automation System' interface. At the top, there's a header with the system name, version 'v2.0', and developer 'Seung Ho Jung'. Below this, a message states: 'Upload your research documents and the system analyzes the Project structure to build a Research Note automation environment for your organization.' A progress bar shows four steps: 1. Upload documents (active), 2. Deep analysis, 3. Review extraction results, and 4. Create system. The main area features a dashed box with an upload icon and the text: 'Drag and drop research documents, or click to select'. Below this, a list of supported file types is shown: 'R&D plan · proposal · schedule · metrics table, etc. — PDF · DOCX · XLSX · HWPX · CSV · TXT (multiple files allowed)'. Two files are listed: '연구개발계획서.docx' (15.9 KB) and 'Performance Metrics.xlsx' (5.2 KB), each with a 'Remove' button. A 'Start analysis →' button is at the bottom right.

Figure 4-1 The document upload step. Registered files appear in the list.

Note To try the system first, upload the two sample documents in `sample_docs/`. You can always reset the system and upload your real documents afterwards.

4.2 Reviewing what was extracted

Press **Start analysis →** and the system analyses the documents in depth, extracting the project title, number, organisation, period, work packages, and metrics, then shows a review screen. The system does not decide anything on its own — check each item against the confidence badge beside it and correct anything wrong right here.

English



AI Agent Research Notebook Automation System

AAA-RNS · AI Agent-driven Autonomous Research Notebook System

v2.0 · Developed by *Seung Ho Jung*

Upload your research documents and the system analyzes the Project structure to build a Research Note automation environment for your organization.

Upload documents

Deep analysis

Review extraction results

Create system

Extracted project info The system decides nothing on its own — review and edit each item before proceeding.

Project name **High confidence**

Project Code **High confidence**

초정밀 박막 공정 기술 개발

RS-2030-38354655

Organization (company name) **High confidence**

Agency / Ministry **High confidence**

대한정밀화학

산업통상자원부

Start date **High confidence**

End date

Research Note cycle

2030-07-01

2032-08-31

Biweekly (recommended)

Work Packages (WP) · 5

ID	Name	Extraction confidence
WP1	표면 처리 검증	High confidence
WP2	내열성 시험 체계 구축	High confidence
WP3	시편 제작 고도화	High confidence

Figure 4-2 Reviewing what was extracted. Low-confidence items are badged and ask to be checked.

4.3 Generating the system

Press [Generate the system with this →](#) and the whole research period is divided into fortnightly (or weekly) sprints, a note slot is created for each sprint, and the metrics dashboard and the 26 AI agents are configured.

5. Screen Guide

5.1 Dashboard

When generation finishes, the dashboard opens. It shows elapsed period, the number of sealed notes, items awaiting signature, evidence-ledger entries, upcoming milestones, and the current sprint at a glance.

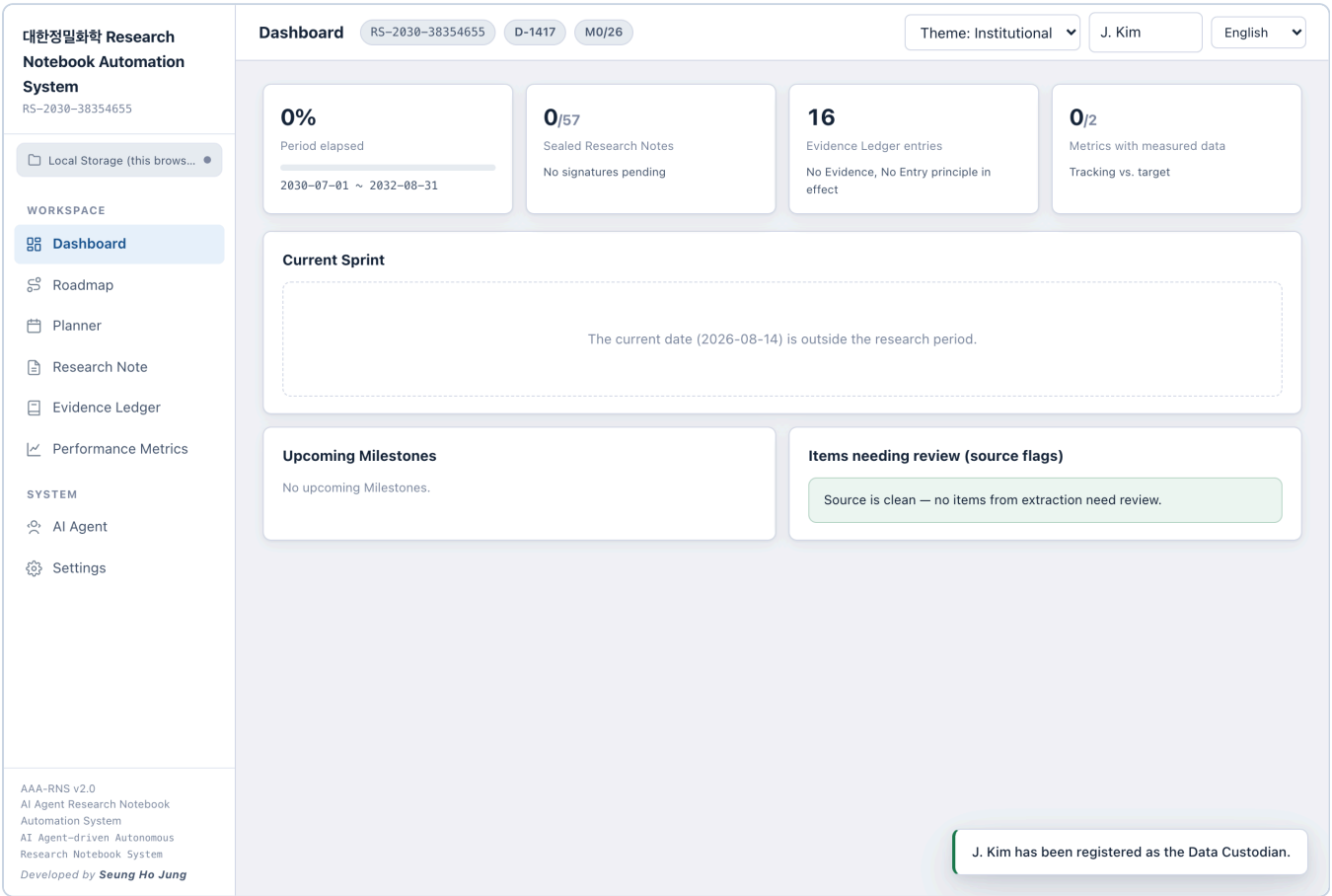


Figure 5-1 The dashboard. Theme, name, and language are set at the top right.

5.2 Roadmap

The Roadmap lays the whole project out on one screen. Above each work package (WP) bar, dots show note status (green = sealed, amber = awaiting signature, indigo = draft); ♦ marks a milestone and the red vertical line is today. The view period can be narrowed to All time, This year, Last 12 months, Next 6 months, or a custom range; narrowing it switches the axis to months.

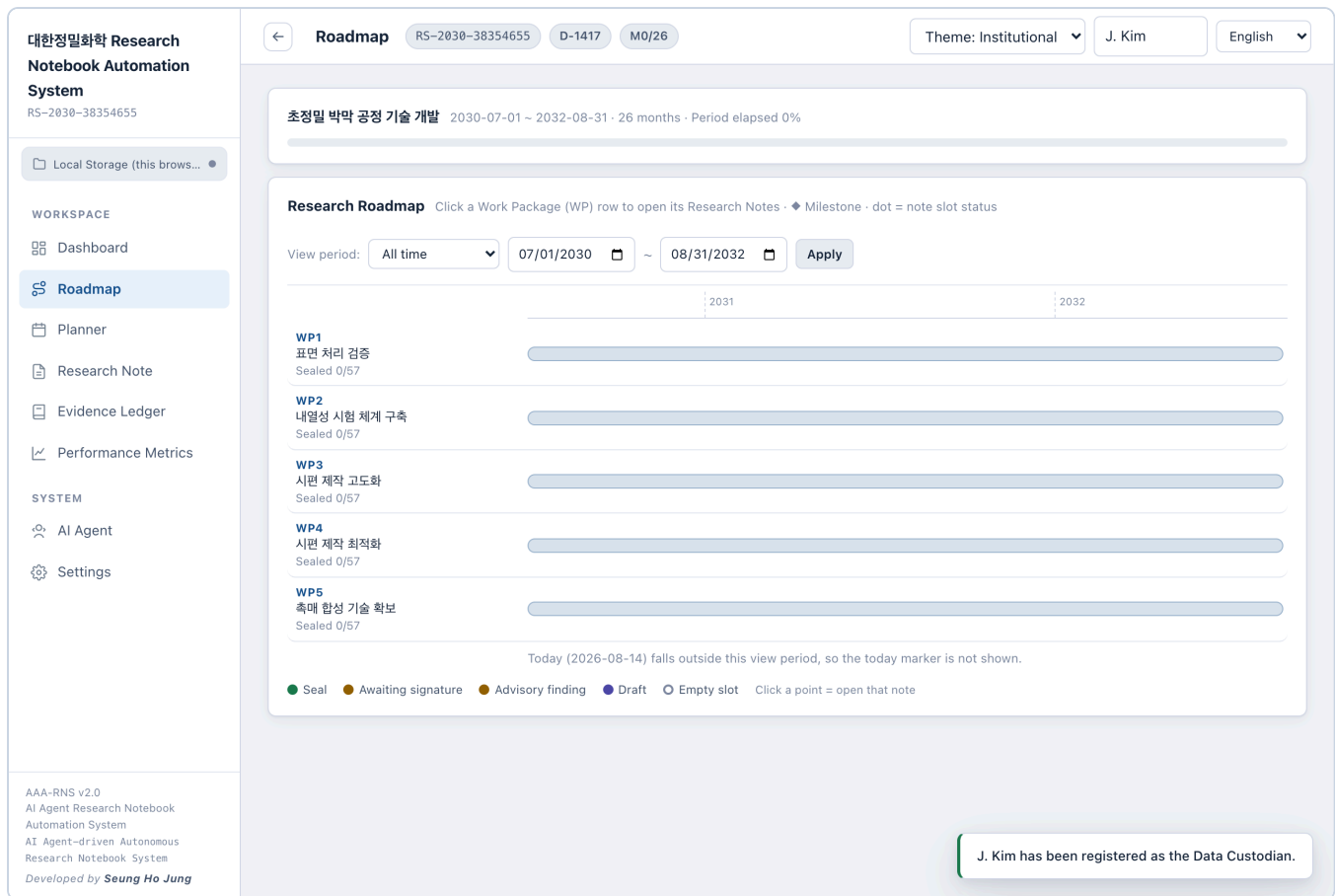


Figure 5-2 The Roadmap. Narrowing the view period switches the axis to months.

Clicking a WP row opens the list of research notes for that work package, and clicking a note in the list opens it. The ← button at the top left returns to the previous screen at any time.

5.3 Planner — Sprint, WP Gantt, Monthly

The Planner offers three views. **Sprint** is a list by period, **WP Gantt** shows the schedule as bars (with view-period control and a today marker), and **Monthly** shows progress by month. In all three views, clicking a row leads to the related information and research notes.

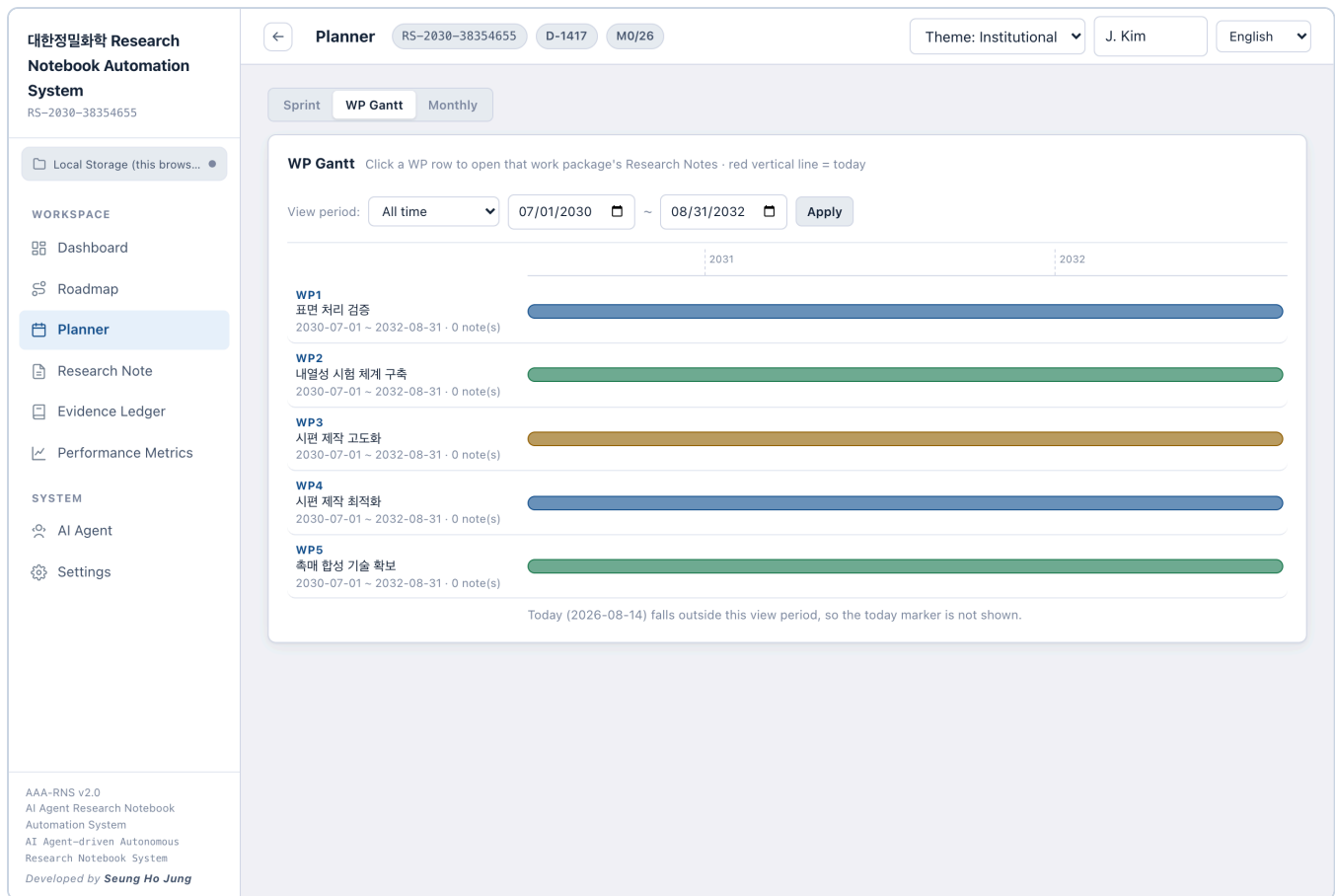


Figure 5-3 The WP Gantt. Clicking a row opens that work package's research notes.

대한정밀화학 Research

Notebook Automation

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RS-2030-38354655

Local Storage (this brows...)

WORKSPACE

Dashboard

Roadmap

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Research Note

Evidence Ledger

Performance Metrics

SYSTEM

AI Agent

Settings

AAA-RNS v2.0

AI Agent Research Notebook

Automation System

AI Agent-driven Autonomous

Research Notebook System

Developed by **Seung Ho Jung**

←

Planner

RS-2030-38354655

D-1417

M0/26

Theme: Institutional

J. Kim

English

Sprint

WP Gantt

Monthly

M1

2030-07-01 ~ 2030-07-31

0 note(s) · 0 sealed

M2

2030-08-01 ~ 2030-08-31

0 note(s) · 0 sealed

M3

2030-09-01 ~ 2030-09-30

0 note(s) · 0 sealed

M4

2030-10-01 ~ 2030-10-31

0 note(s) · 0 sealed

M5

2030-11-01 ~ 2030-11-30

0 note(s) · 0 sealed

M6

2030-12-01 ~ 2030-12-31

0 note(s) · 0 sealed

M7

2031-01-01 ~ 2031-01-31

0 note(s) · 0 sealed

M8

2031-02-01 ~ 2031-02-28

0 note(s) · 0 sealed

M9

2031-03-01 ~ 2031-03-31

0 note(s) · 0 sealed

M10

2031-04-01 ~ 2031-04-30

0 note(s) · 0 sealed

M11

2031-05-01 ~ 2031-05-31

0 note(s) · 0 sealed

M12

2031-06-01 ~ 2031-06-30

0 note(s) · 0 sealed

Figure 5-4 The Monthly view. Clicking a row opens that month's sprints and notes.

6. Writing a Research Note

6.1 Opening a note

Click the sprint for the period you want to write about, in the Planner or the Roadmap, and the note editor opens. Check the writing period at the top and enter the **author** and the **reviewer**. The reviewer must differ from the author — the system prevents one person from also approving their own note.

대한정밀화학 Research Notebook Automation System
RS-2030-38354655

← Research Note · RN-20300701-20300714 RS-2030-38354655 D-1417 M0/26 Theme: Institutional J. Kim English

RN-20300701~20300714 Draft

Writing period: 2030-07-01 ~ 2030-07-14 Author: J. Kim Reviewer (must differ from the author): Park

WP1 WP2 WP3 WP4 WP5

Original Attachments · Evidence registration Uploading a file records its SHA-256 hash and extracts evidence candidates from the content.

No attachments

Drag and drop experiment logs or measurement files here, or click to upload

Start analysis (auto-writing) Manual entry (select candidate) Direct entry (researcher statement)

1. Period goal Goal set for this period
No items — leave empty if there is no evidence (output as "No evidence available for this period")
+ Add item

2. Work performed Work actually performed — every sentence must cite [E#]
No items — leave empty if there is no evidence (output as "No evidence available for this period")
+ Add item

3. Result data (narrative) Describe observations and outputs — [E#] citation required
No items — leave empty if there is no evidence (output as "No evidence available for this period")
+ Add item

AAA-RNS v2.0
AI Agent Research Notebook Automation System
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Developed by Seung Ho Jung

Figure 6-1 The note editor. The dashed box and [Start analysis] are the entrance to auto-writing.

6.2 Uploading material and auto-writing

This is the core feature. Drag the raw material for that period — experiment logs (TXT), measurement data (CSV) — onto the dashed box. Each file is attached with its SHA-256 hash, evidence is extracted and registered from its contents, and the system then asks whether to analyse it now.

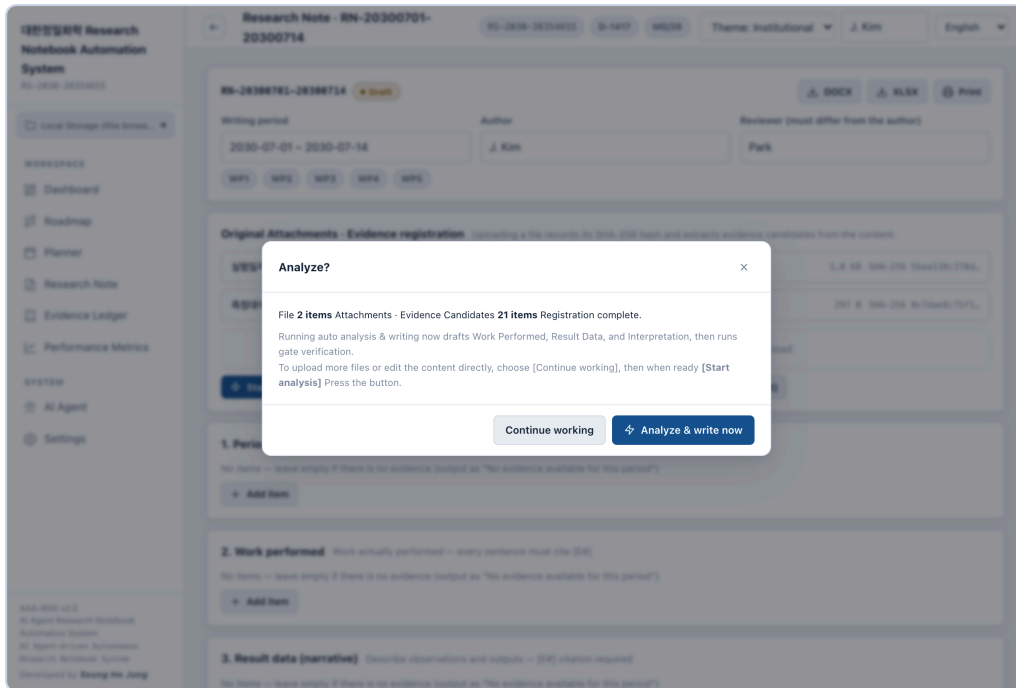


Figure 6-2 The prompt shown right after upload. Choose "Continue working" to add more files first.

Press **Analyse and write now** (or press **Start analysis** later) and the system writes the work performed, the result data, and the interpretation automatically. Every sentence ends with the evidence number **[E#]** that supports it. Sentences come only from the uploaded originals; the system never invents facts.

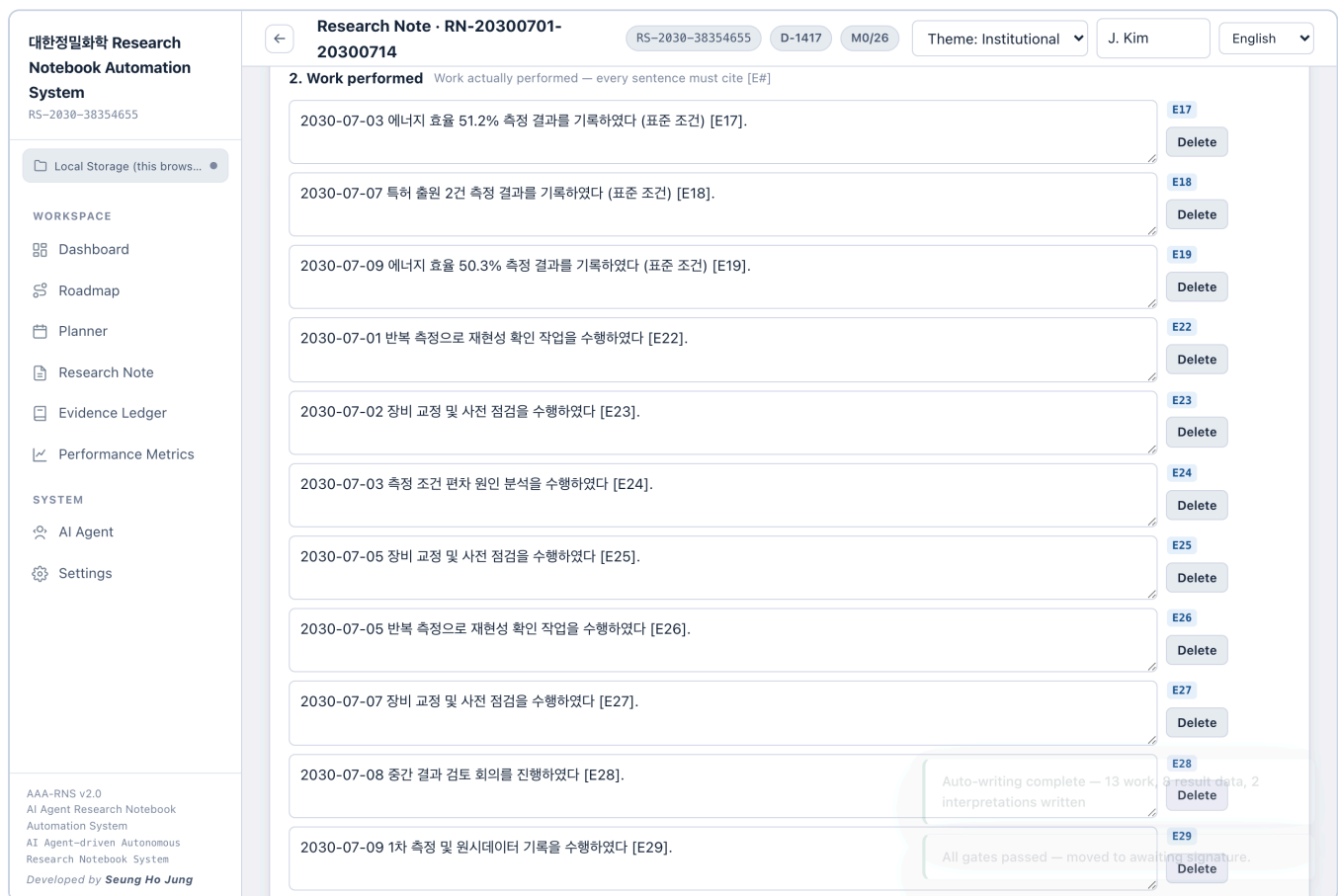


Figure 6-3 Auto-written work entries. The evidence number linked to each sentence is shown.

Note If a record's date falls outside this note's writing period, the system does not adopt it. Instead it finds the sprint the date belongs to and offers: "Auto-write into the note for that period?" Accept, and it creates that note and completes the writing and verification for you.

Note Sentences the system composes itself — interpretations and measurement conditions — are **generated in the interface language you selected**. The work-performed entries, however, are quoted from the uploaded originals and therefore remain in the source language: preserving the authenticity of the record is deliberate.

6.3 Verification gates

After auto-writing, four verification gates run automatically. A gate is not a suggestion but a barrier — a note with outstanding findings cannot be sealed (in advisory mode it can still be saved, with the findings preserved).

G1 Evidence mapping	Sentences without an evidence number, citations of non-existent evidence, speculative or exaggerated wording
G2 Longitudinal consistency	Period overlap with sealed past notes, contradictory values for the same metric, status regression
G3 Numeric & unit audit	Recalculation of sums and ratios, unit notation, direction against the target, unsupported claims of achievement (including in free text)
G4 Compliance	Required electronic-note fields (author, reviewer, period, hash, and so on) and whether cited evidence has its original attached

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←

Research Note · RN-20300701-20300714

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D-1417

M0/26

Theme: Institutional

J. Kim

English

+ Add measured value

5. Interpretation

Meaning of the results — [E#] citation required

Metric '에너지 효율' measured 43.8%, which is 69.5% of the 63% target [E34].

E34

Delete

Metric '특허 출원' measured 2건, which is 100% of the 2건 target [E36].

E36

Delete

+ Add item

6. Next plan

Plan for the next period — [E#] citation required

No items — leave empty if there is no evidence (output as "No evidence available for this period")

+ Add item

Verification Gate

G1 Evidence Mapping · G2 Longitudinal Consistency · G3 Numeric & Unit · G4 Compliance — Mode: Advisory

G1 PASS

G2 PASS

G3 PASS

G4 PASS

Run gate verification

Sign · Seal

Contributor Signature → Final approval (cross-approval principle — the author cannot approve their own note) → immutable once sealed

Contributor Signature: None

J. Kim

✓ Contributor Signature

Final approval · Seal

Figure 6-4 Verification gate results. Findings are shown as cards with location, reason, and action.

6.4 Signing and sealing

A note that passes the gates moves to the signing stage. The author gives a **Contributor signature**, and the reviewer gives **Final approval · Seal** under their own name, which seals the note. If the author attempts final approval, it is refused under the cross-approval principle.

A sealed note cannot be edited. To change something, issue a revision (-R1, -R2, ...); the original and the revision history both remain. At the moment of sealing, the note and its official DOCX are archived automatically under **archive/**, and the note's hash — which **covers the content and the signatures together** — is chained to the hash of the previous sealed note. Any later change, whether to the text or to an approver's name, is exposed immediately by verification.

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20300714

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D-1417

M0/26

Theme: Institutional

J. Kim

English

RN-20300701-20300714

Sealed

DOCX

XLSX

Print

Issue revision

Writing period

2030-07-01 ~ 2030-07-14

Author

J. Kim

Reviewer (must differ from the author)

Park

WP1

WP2

WP3

WP4

WP5

R E S E A R C H N O T E

Project Code	RS-2030-38354655	Note No.	RN-20300701-20300714
Project Title	초정밀 박막 공정 기술 개발	Period	2030-07-01 ~ 2030-07-14
Author	J. Kim	Reviewer	Park
Work Package	WP1, WP2, WP3, WP4, WP5	State	Sealed

1. Period Goal

No supporting evidence for this period

2. Work Performed

2030-07-03 에너지 효율 51.2% 측정 결과를 기록하였다 (표준 조건) [E17].

2030-07-07 특허 출원 2건 측정 결과를 기록하였다 (표준 조건) [E18].

2030-07-09 에너지 효율 50.3% 측정 결과를 기록하였다 (표준 조건) [E19].

2030-07-01 반복 측정으로 재현성 확인 작업을 수행하였다 [E22].

2030-07-02 장비 교정 및 사전 점검을 수행하였다 [E23].

2030-07-03 측정 조건 편차 원인 분석을 수행하였다 [E24].

2030-07-05 장비 교정 및 사전 점검을 수행하였다 [E25].

2030-07-05 반복 측정으로 재현성 확인 작업을 수행하였다 [E26].

The Research Note has been sealed and stored in the archive.

Figure 6-5 The official view of a sealed note. DOCX, XLSX, and printing are available at the top.

6.5 Polishing prose with AI (optional)

If the Data Custodian connects an AI engine in Settings (Anthropic Claude, Google Gemini, or OpenAI), a **Polish prose with AI** button appears on the note screen. It rewrites the auto-written sentences in a more natural research-note style, but any sentence whose evidence numbers change or that introduces prohibited wording is discarded automatically, and the whole result is re-verified by the gates. Every function of the system works fully without an AI engine.

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← Settings RS-2030-38354655 D-1417 M0/26

Theme: Institutional J. Kim English

+ Add member

Verify record integrity

Verifies the SHA-256 hash chain of all sealed notes (for audits)

Verify hash chain

My account

Name

J. Kim Data Custodian

Email

j.kim@corp.com

Role

Data Custodian

Change PIN

AI engine (LLM)

A7 enhancement engine that polishes Auto-draft prose — optional; the system works fully without it

Anthropic Claude

claude-sonnet-5

API key (sk-ant-...)

Test connection

Save

Delete settings

Safeguard: even sentences polished by AI are re-verified by the deterministic gate, and any sentence whose [E#] evidence citation changes or that introduces prohibited wording is discarded automatically. Facts and figures always originate from the Evidence Ledger.

Storage note: the key is data/llm.json is where it is stored — in Shared Folder mode the whole team shares it and it is included in the Backup ZIP. A company-issued key is recommended.

Data management

Backup · restore · reset — Data Custodian only

Full backup (.zip · includes originals)

Export all (JSON)

Restore backup (.zip/json)

Reset system (re-onboarding)

Backup reminder:

Monthly reminder (default)

Figure 6-6 AI engine settings (Data Custodian only).

7. Evidence, Metrics, Agents

7.1 Evidence Ledger

Every fact extracted from the uploaded material is registered here with an evidence number [E#] . You can always trace which sentence of which note rests on which position of which original file. This screen is the starting point for an audit.

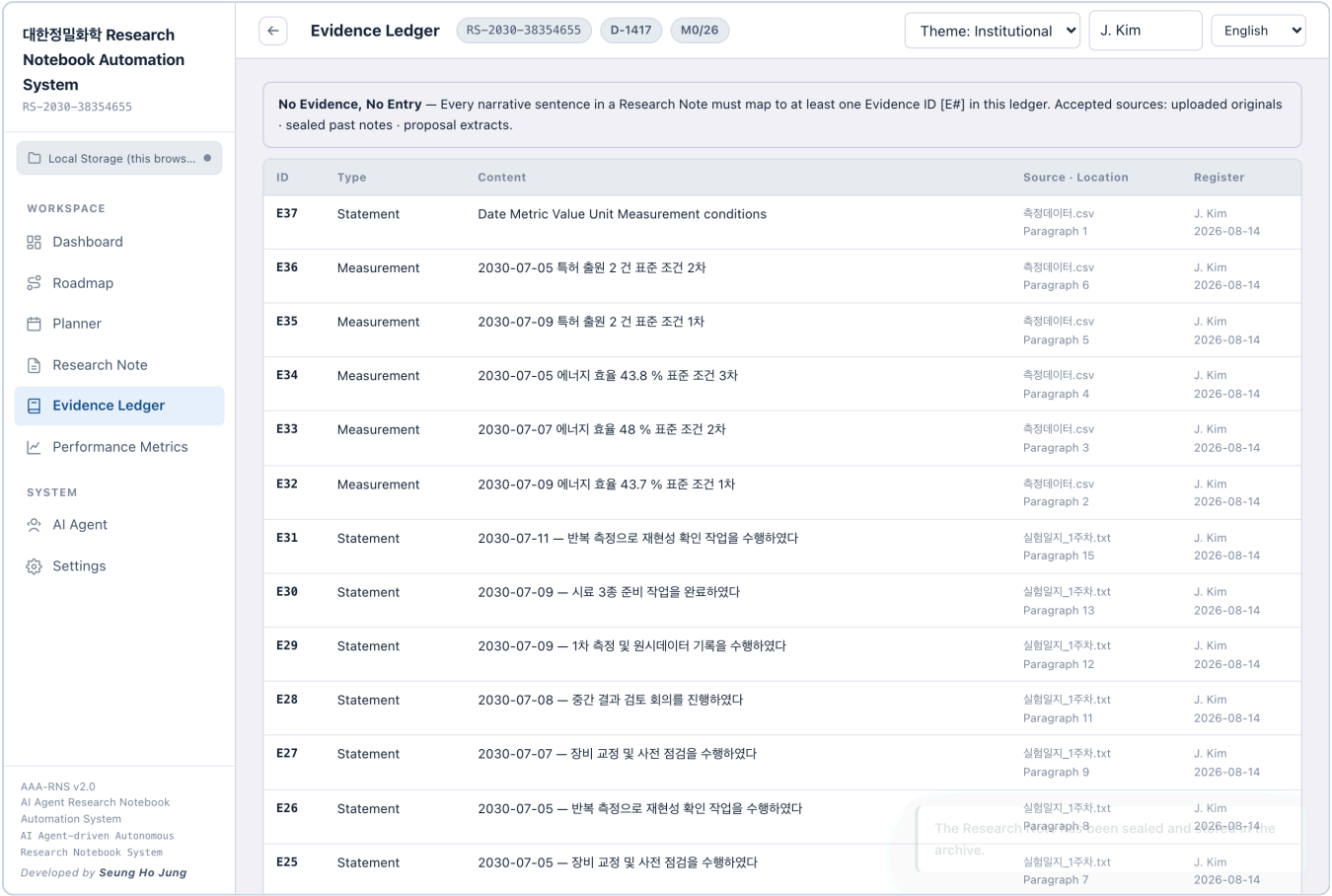


Figure 7-1 The Evidence Ledger. Each entry records its kind, source file, position, and hash.

7.2 Performance Metrics

Each time a note is sealed, its measured values accumulate per metric and the trend against the target is drawn. Values come only from sealed notes; no interpolation or extrapolation is performed.

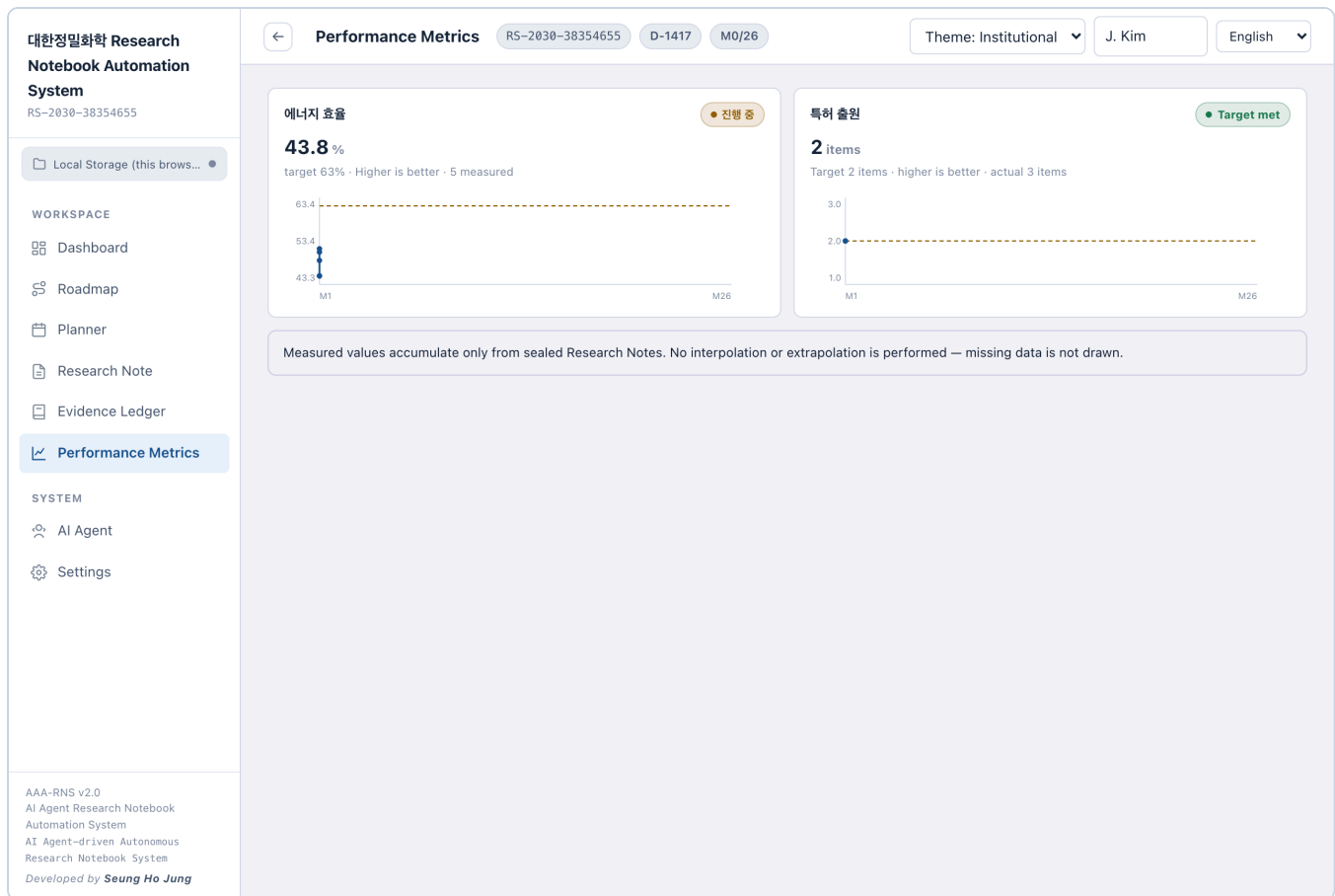


Figure 7-2 Performance Metrics. Each point is a measured value from a sealed note.

7.3 AI Agents

This is the roster of the 26 specialist agents working inside the system. The Planning (5), Collection (6), Writing (6), Verification (4), Output (2), and Memory (2) groups communicate through fixed-format packets, and each group's lead (★) is accountable for the completeness of its output. There is nothing here for an ordinary user to operate; it is reference material for understanding why the system behaves as it does.

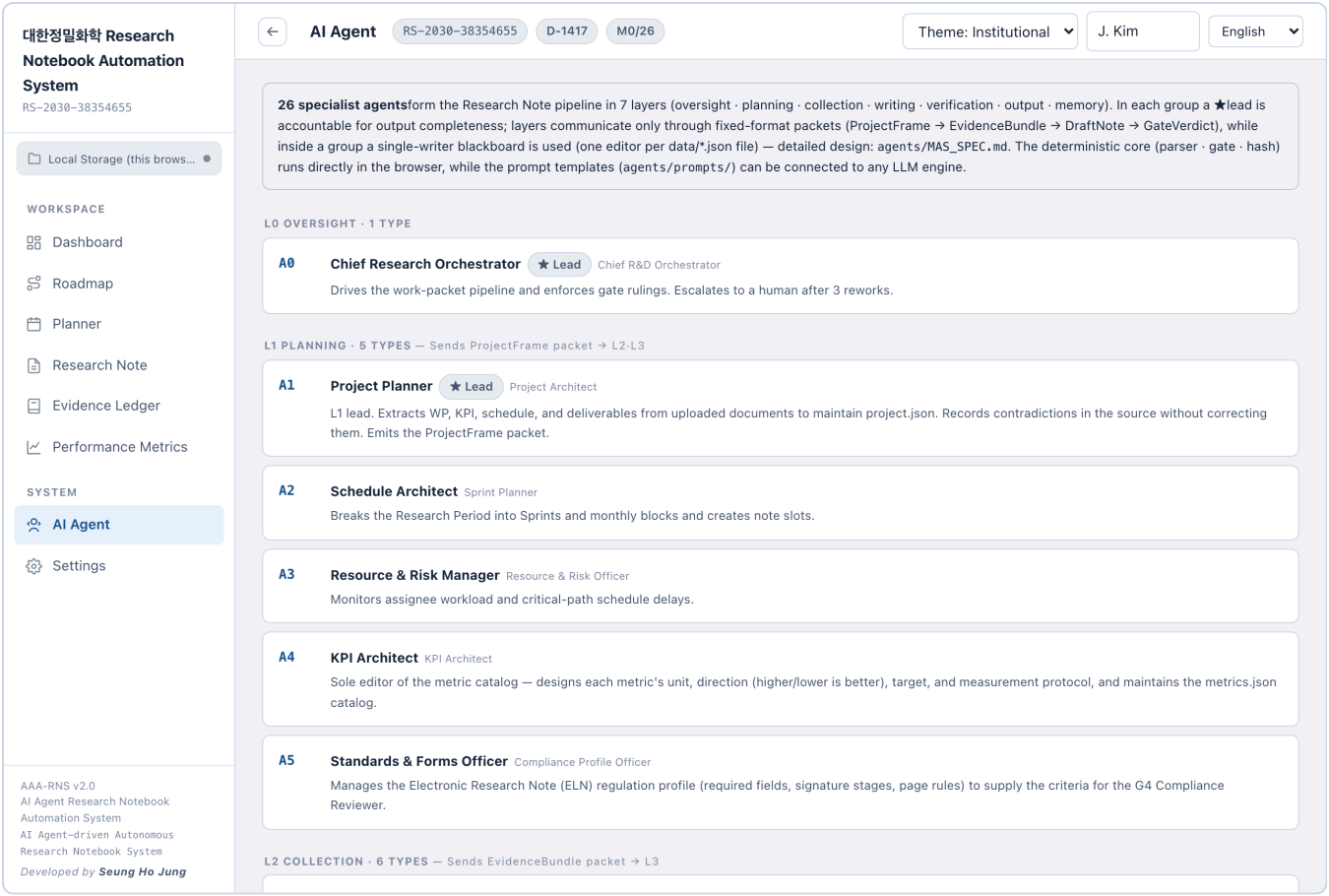


Figure 7-3 The AI agent roster. The detailed design is in agents/MAS_SPEC.md.

8. Data Management and Security

8.1 Where records are stored

If you connected a shared folder, every record is stored as real files inside it. If you did not, records are stored in this browser's internal storage — sufficient for personal use or a trial, but a shared folder is recommended for real operation.

data/	Project structure, planner, metrics, audit log (append-only)
notes/	Research notes (state, signatures, hashes)
notes_files/	The original uploaded files
ledger/	Evidence ledger
archive/	Permanent copies of sealed notes — created automatically on sealing; never rewritten by the app

8.2 Backup and restore

Full backup (.zip, originals included) in Settings exports all of the above as a single ZIP. The archive carries a per-file SHA-256 list, and a restore begins writing only after the whole archive passes integrity verification — if even one byte is damaged, your existing data is left completely untouched. You can take a backup whenever you wish, and 30 days after the last one the dashboard reminds you once a month.

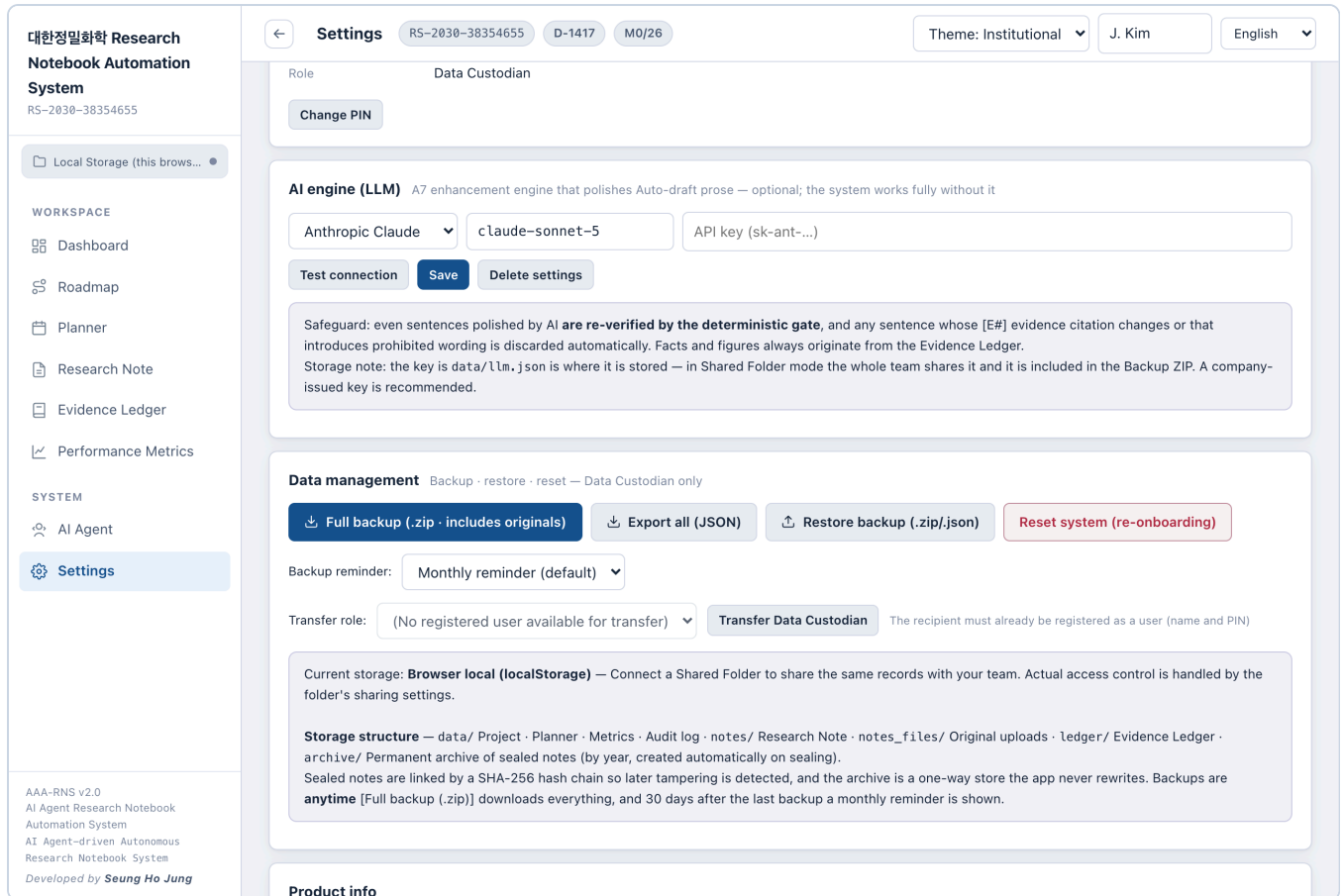


Figure 8-1 Data management in Settings — backup, restore, reminder interval, and role transfer.

8.3 User roles

Backup, restore, and reset are shown only to the Data Custodian, and restore and reset ask for the PIN again before running. The role can be handed to another registered user with **Transfer Data Custodian role** under Settings → Data management (the current custodian's PIN is required, and the transfer is written to the audit log). Connecting or changing the shared folder is a per-PC setting, so any user can do it by clicking the storage indicator at the top left.

Caution A system reset deletes all local records and starts again from onboarding. Always take a full backup first. The Community edition keeps no licence record, so a reset simply returns you to the first screen. On an enterprise build, the licence and the project binding survive a reset.

8.4 Troubleshooting

The browser does not open automatically	Type <code>http://localhost:8777</code> into the address bar yourself.
"Cannot open port" error	Check whether a server window is already running; if so, use that one.
The screen looks wrong or shows an old version	Hard refresh: Windows <code>Ctrl</code> + <code>Shift</code> + <code>R</code> / Mac <code>Cmd</code> + <code>Shift</code> + <code>R</code>
The shared-folder button does nothing	Confirm you are using Chrome or Edge. Other browsers do not support folder connection.
Auto-writing produced nothing	Check that the record dates fall within the note's writing period. If they do not, the system suggests the correct note.
Final approval is refused	Check that the approver's name differs from the author's. Self-approval is blocked by the cross-approval principle.
The first screen asks for a registration key	The Community edition never asks for one. If a key screen appears, you are running an enterprise build — enter the key you were issued.
(Enterprise builds) the license key is reported invalid	Make sure the whole key was copied. If it keeps failing, ask the developer to reissue it.