

A PARALLOFF PRODUCT

CHANNEL

PHYSICAL-DIGITAL READING INFRASTRUCTURE

When the moment to read appears,
the book should already be there.

DOCUMENT	Public Interface / 001
EDITION	REV 0.8
STATUS	Current public working document
PRODUCT STAGE	Concept-stage / pilot design

ABSTRACT

Channel is a campus-first physical-digital reading system in development at Paralloff. Its compact nodes and software are designed to turn clearly sourced digital materials into physical reading copies where students already study and move. The first test is deliberately bounded: one campus, a small rights-clear catalog, and 1-3 compact stations.

The operating thesis is that the book market's immediate bottleneck is often contact rather than supply. Channel is designed for the short interval between a reading intention appearing and that intention disappearing.

CIRCULATING COPY



Current edition: paralloff.com

1. CONTACT, NOT SUPPLY

1.1 THE FRAGILE READING MOMENT

Books are abundant. Reading moments are fragile. Online stores offer selection, but not physical immediacy. Ebooks are immediate, but remain inside the same screen as everything else. Bookstores and libraries offer rich experiences, but usually require a deliberate trip.

Channel is designed around a narrow behavioral question: what happens if a physical reading object is already present on the route where the intention appears?

1.2 WHY NOW

Machine output is becoming abundant. Trusted sources and deliberate attention are not. AI can retrieve, summarize, translate, and generate text at very low cost. The scarce work shifts toward choosing which original work deserves direct attention, knowing *where an idea came from*, and forming a judgment that belongs to the reader.

Channel uses AI to help a reader enter the source. The source remains visible. Any future reading record remains under the reader's control.

**THE BOTTLENECK
IS
CONTACT, NOT
SUPPLY.**

Fig. 1. Operating hypothesis behind the first Channel test.

Table 1. Existing channels and the friction Channel targets.

CHANNEL	PRIMARY FRICTION
Online store	Delivery delay
Ebook	Screen competition
Library / bookstore	Destination trip
Channel	Tests route-level physical contact

Current test. Can source-linked physical access on one campus create repeat use?



2. CHANNEL

2.1 A READING CONTACT POINT

A Channel node combines a compact physical station, a focused catalog, and a mobile continuity layer in places people already pass through. It is not intended to be an infinite bookstore compressed into a machine.

DISCOVER

Meet a focused set of books and readers matched to place, available time, language, and purpose.

MATERIALIZE

Reserve, pick up, or print a physical copy without leaving the route already being traveled.

CONTINUE ROADMAP

Keep access to the reading object, reprint it when useful, and later connect reader-controlled notes and questions back to the source.

The initial product test is narrower than the long-term system. It validates whether physical contact changes behavior before adding later reading-record layers.

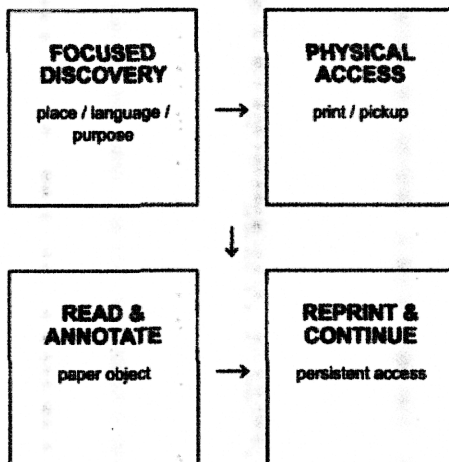
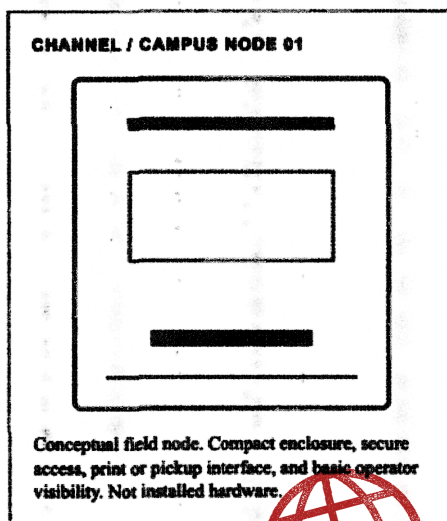


Fig. 2. Minimal Channel interaction loop.



3. FIRST CAMPUS DEPLOYMENT

3.1 FIRST WEDGE

Start with materials students already need to read. The first Channel pilot focuses on international students who face three connected frictions: understanding course-linked and technical material, turning it into a usable physical format, and annotating it without losing the original source.

1. Open-license, public-domain, instructor-approved, author-approved, or pilot-licensed source.
2. AI-assisted translation and localization.
3. Source-parallel, note-friendly layout.
4. Campus print or pickup.
5. Reprint and reading continuity.

AI assistance remains source-visible. High-stakes professional translation is outside the initial product promise.

3.2 PILOT BOUNDARY

Table 2. Planned first-pilot boundary.

Nodes	1-3 compact stations
Geography	One campus or campus-adjacent cluster
Catalog	Limited, rights-clear material
Flow	scan → select → pay → print/pickup → reprint/recover
Ops	Basic dashboard and usage logging
Status	Pilot design and partner conversations

3.3 WHAT MUST BE PROVEN

- Exposure → QR scan
- Scan → print or pickup
- 30-day revisit
- Localization request volume
- Reprint or reorder rate
- Station reliability
- Installation-partner satisfaction

Deliberately bounded. The first proof is not a citywide network. It is one reading moment that repeats.



4. COMPOUNDING HYPOTHESIS

A useful local cluster can become more useful with use. This is an operating thesis, not a growth engine Paralloff claims to have proved.

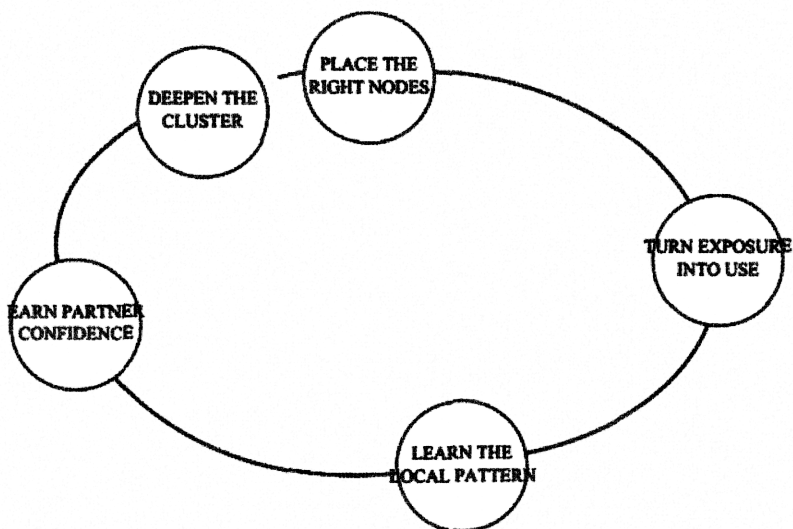


Fig. 3. Proposed local compounding loop. First pilot tests the earliest links only.

4.1 WHAT CAN COMPOUND

- Location relationships
- Operating knowledge
- Authorized catalog access
- Reader and partner trust

4.2 PROOF BY SCALE

First pilot	Exposure → use → revisit
Local cluster	Catalog fit → uptime → service efficiency
Network	Partner renewal → authorized depth → node density

Public operating model only. Site selection, rights, economics, and implementation models remain internal.



5. PAPER AS OUTPUT AND INPUT

5.1 LONG-TERM DIRECTION

Channel begins with physical access. Over time, highlights, questions, and reading context can remain anchored to the original text and return to a reader-controlled digital record.

With explicit permission, that continuity can improve reflection, recommendations, provenance, and compensation without treating private thought as extractable behavioral data.

5.2 THREE PRINCIPLES

Original text as a ledger. AI can explain, connect, and translate while the source remains visible, traceable, and attributable.

Reader-controlled records. Highlights, questions, and reflections remain private by default and stay under the reader's control.

AI that leads back to sources. Channel uses AI to help people enter, continue, and revisit original works rather than make reading unnecessary.

ORIGINAL TEXT

A translated or explained passage remains anchored to the source. The reader can see where it came from and choose what continues.

Return to this claim after class.



READER-CONTROLLED CONTINUITY

original work / retained question / continuation
by choice

Fig. 4. Long-term paper-to-digital continuity concept.

Boundary. This is long-term vision, not a claim about the first pilot.



6. BUILDING THE FIRST LOOP

The first pilot needs the right partners, not a large organization.

Table 3. Partner categories for the first bounded deployment.

PARTNER TYPE	WHAT MATTERS IN THE FIRST LOOP
CAMPUS & SPACE	A visible location with repeated routes, meaningful dwell time, and a team willing to host a bounded pilot.
CONTENT & RIGHTS	Open-license, OER, instructor-approved, author-approved, or pilot-licensed material with clear attribution and use boundaries.
HARDWARE & PRINT	Compact enclosures, secure access, printing, binding, device integration, and field operations.
EARLY BUILDERS & ADVISORS	People who can own a hard problem across software, hardware, publishing, operations, or spatial design.

6.1 A GOOD PILOT SITE

- Repeated student routes
- Meaningful dwell time
- Visible, accessible position
- Power/network access
- Local staff or faculty champion

6.2 INITIAL CONTENT BOUNDARY

- Open educational resources
- Public-domain works
- Instructor-approved materials
- Author-approved works
- Pilot-licensed material

PILOT CONVERSATIONS: dae@paralloff.com / paralloff.com/pilot



7. PARALLOFF

7.1 FOUNDER

Daehyung Lee is the founder of Paralloff and a Purdue ECE alumnus. He is leading the product architecture, physical-digital system design, and first-campus-pilot design and preparation.

Paralloff is building the early team through focused collaborators across hardware, software, publishing, operations, and spatial design.

7.2 FOUNDER THESIS

As AI expands what we can do, the need to decide what is worth doing grows. Channel begins with a concrete product question: can a source-linked physical reading object, placed on an everyday route, create repeat use?

The Third Protocol is a working founder thesis. It does not describe the current pilot or a deployed protocol.

CURRENT STATUS

Pilot design and partner conversations.

Email
dae@paralloff.com

Pilot
paralloff.com/pilot

Channel thesis
paralloff.com/thesis

Founder thesis
paralloff.com/third-protocol

LinkedIn
[Daehyung Lee](#)

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The current edition lives at paralloff.com.

