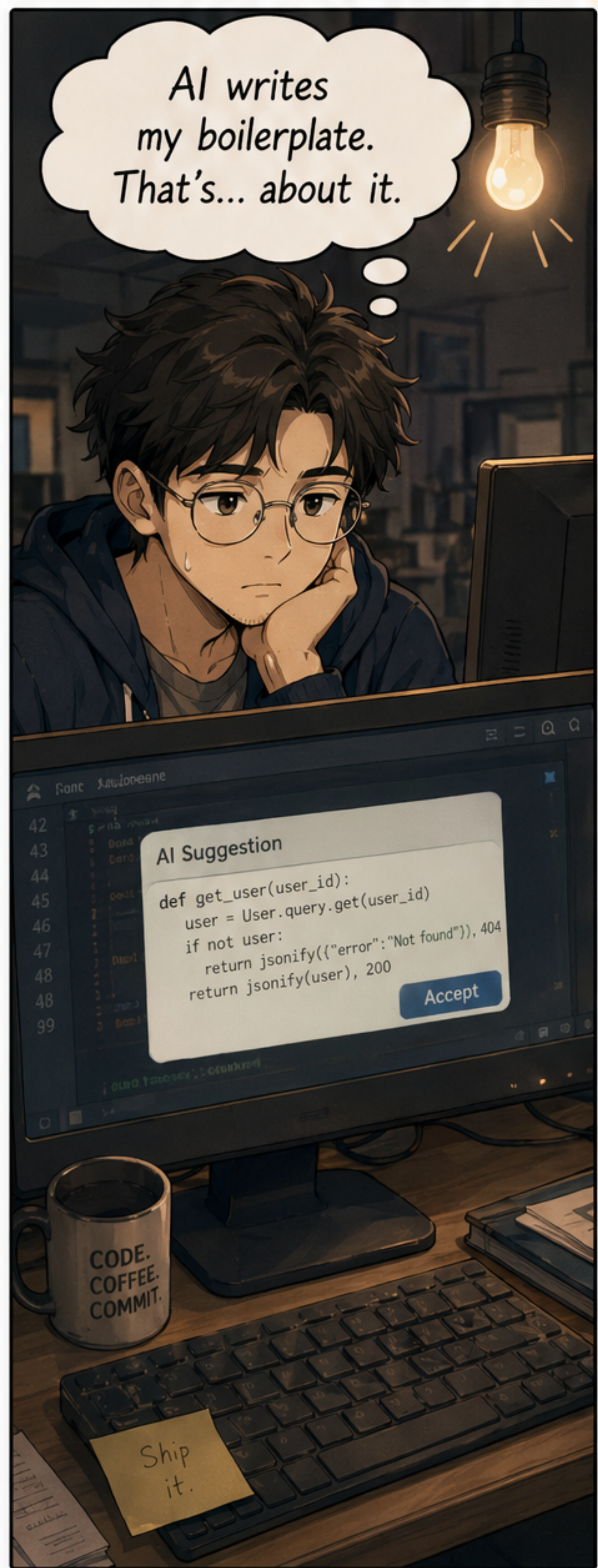




Our team hit 90% daily AI usage. Leadership celebrated.



AI writes my boilerplate. That's... about it.



But a question lingered...

```

AI Autocomplete
@app.route('/users', methods=['POST'])
def create_user():
    data = request.get_json()
    user = User(**data)
    db.session.add(user)
    db.session.commit()
    return jsonify(user), 201

AI Autocomplete
@app.route('/users/<int:user_id>', methods=['PUT'])
def update_user(user_id):
    user = User.query.get_or_404(user_id)
    data = request.get_json()
    for key, value in data.items():
        settor(user, key, value)
    db.session.commit()
    return jsonify(user), 200

AI Autocomplete
@app.route('/users/<int:user_id>', methods=['DELETE'])
def delete_user(user_id):
    user = User.query.get_or_404(user_id)
    db.session.delete(user)
    db.session.commit()
    return '', 204
    
```

- INCIDENT #INC-4821 Payment API 5xx errors 5m ago
- INCIDENT #INC-4822 Checkout timeouts 12m ago
- INCIDENT #INC-4823 DB replication lag 18m ago
- INCIDENT #INC-4824 User sign-up failing

- MEETING Team Standup 9:30 AM
- MEETING Product Sync 11:00 AM
- MEETING Arch Review 2:00 PM

- CODE REVIEW Request PR #1287 Auth service 18m ago
- CODE REVIEW Request PR #1288 Billing service 27m ago
- CODE REVIEW Request PR #1289 Notification svc 25m ago
- MEETING Design Sync
- MEETING QBR Prep
- MEETING 1:1 with PM

Don't forget metrics update!

DEBUG. REPEAT.

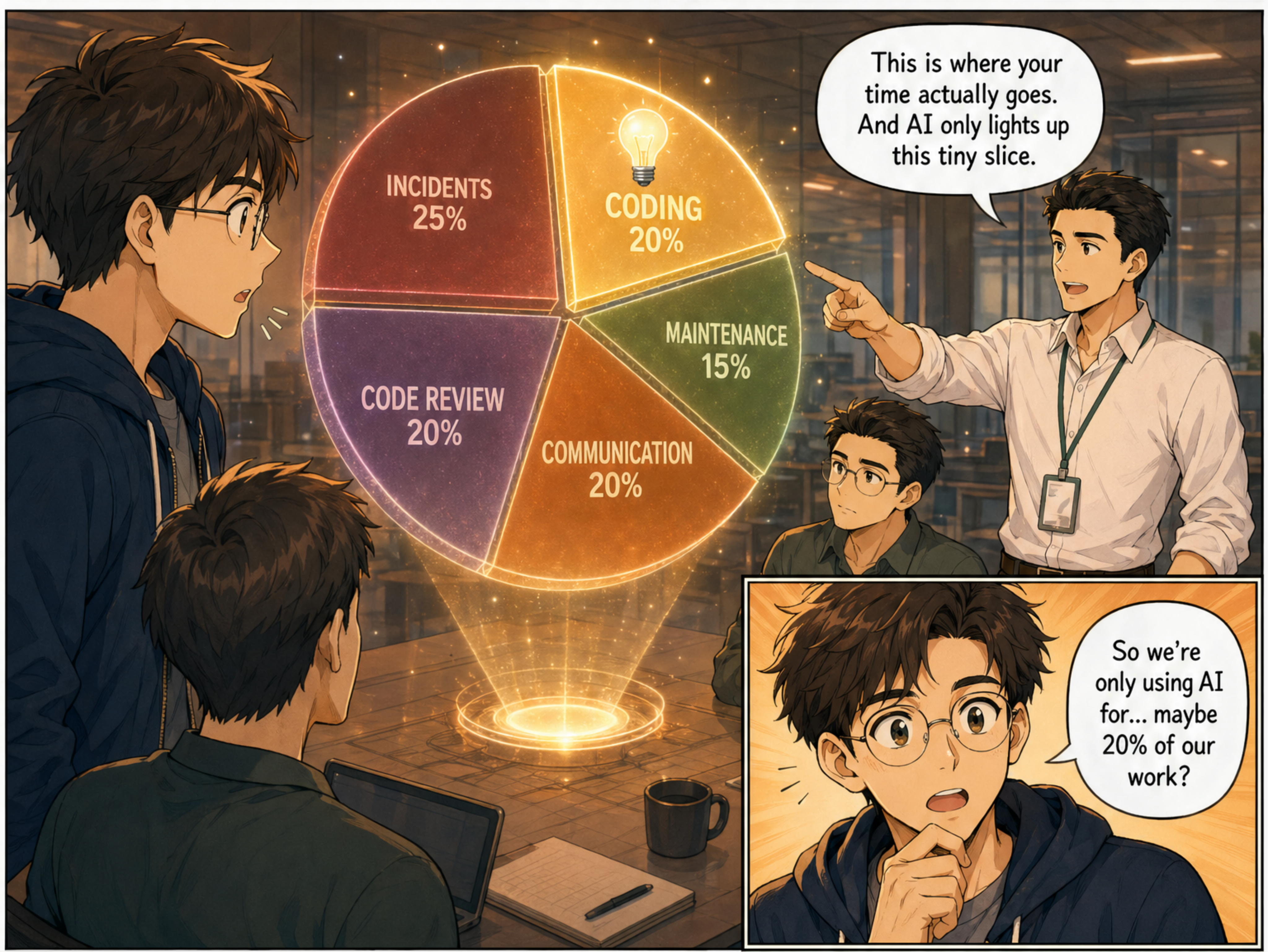
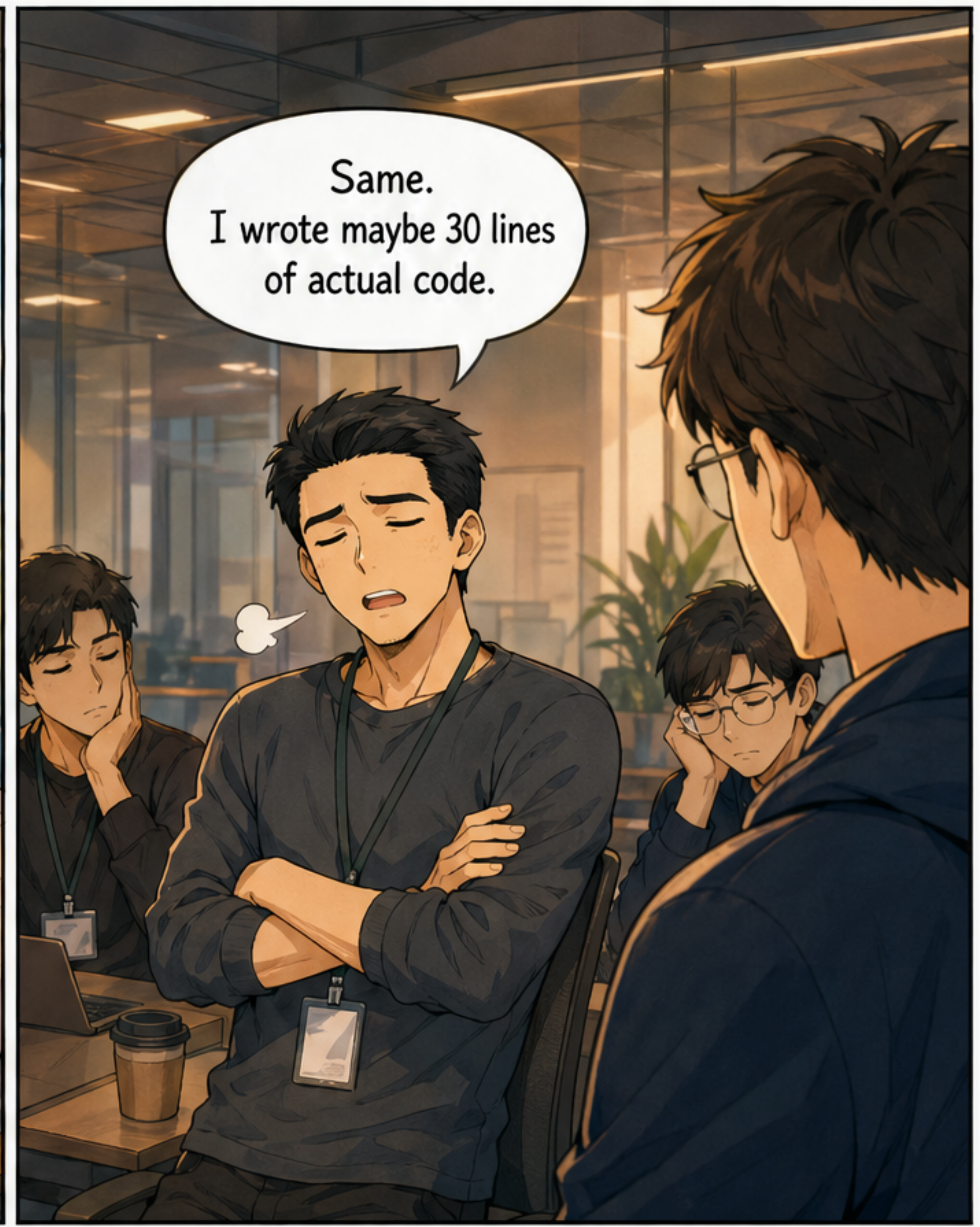
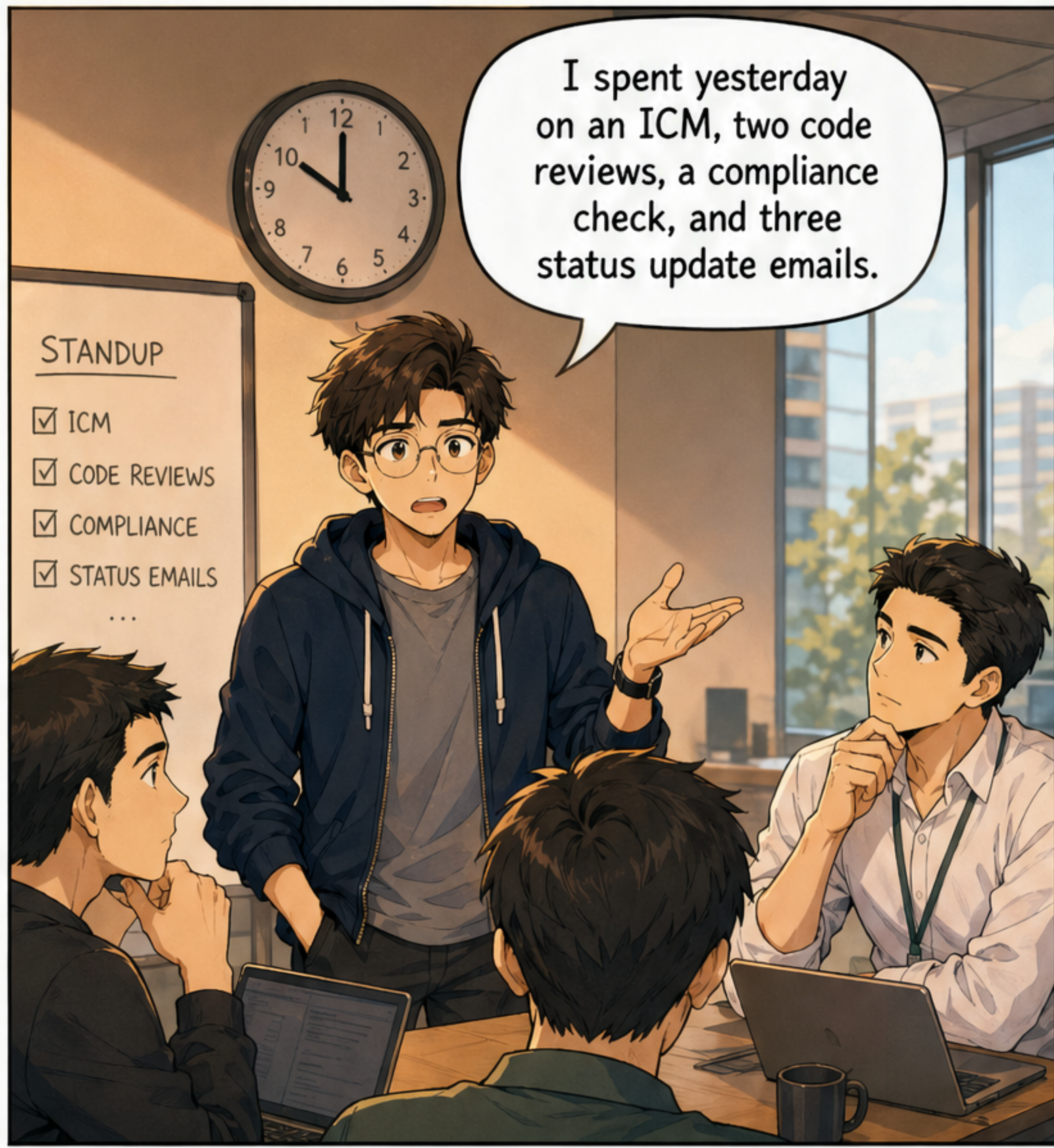


How much productivity have we actually gained?
- Sam (Engineering Manager)

- INCIDENT Another outage!
- INCIDENT High error rate!
- INCIDENT DB down!

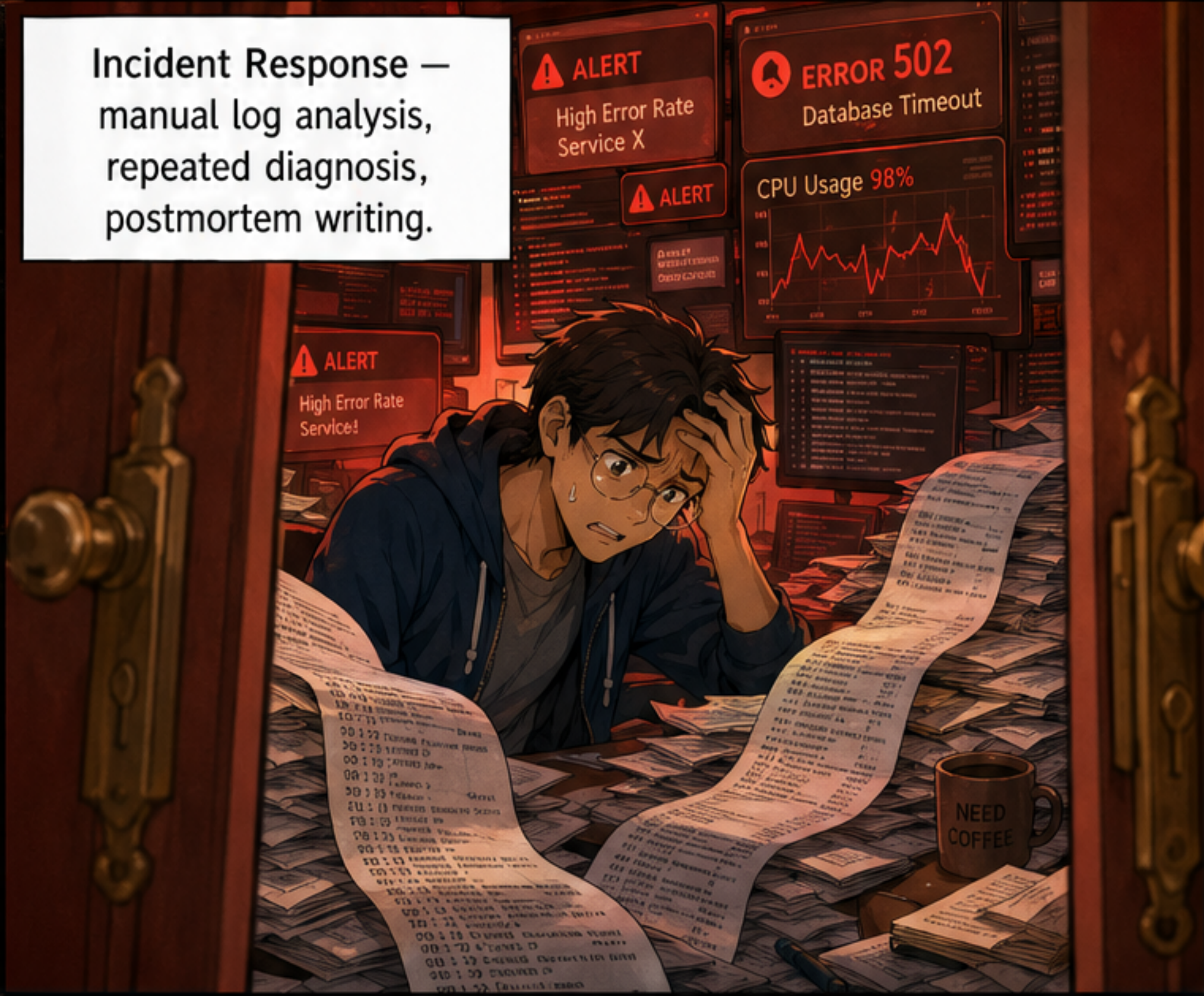
- CODE REVIEW Please review
- CODE REVIEW Changes requested

- MAINTENANCE Dependency update
- MAINTENANCE Server patch
- MAINTENANCE Infra upgrade

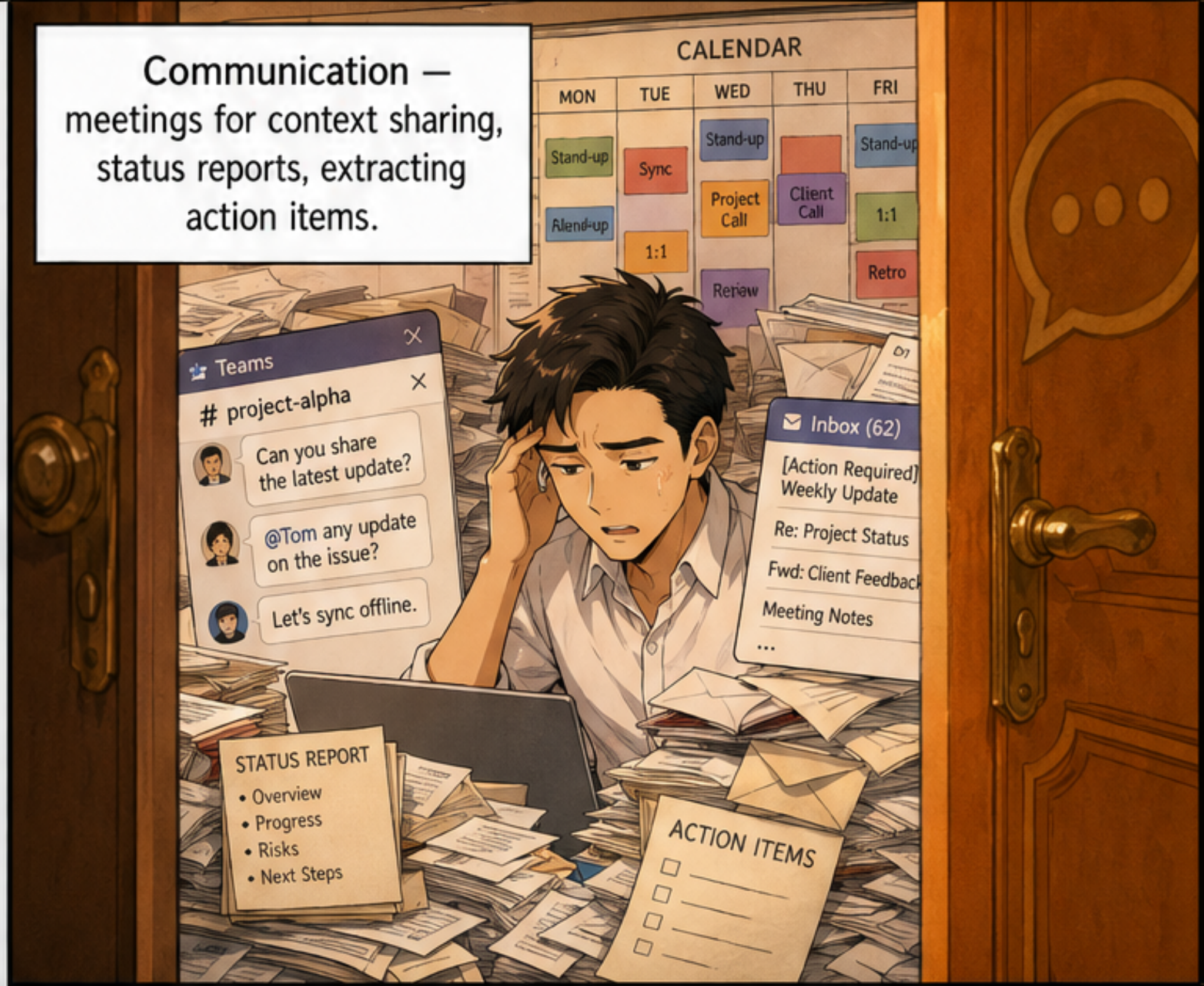




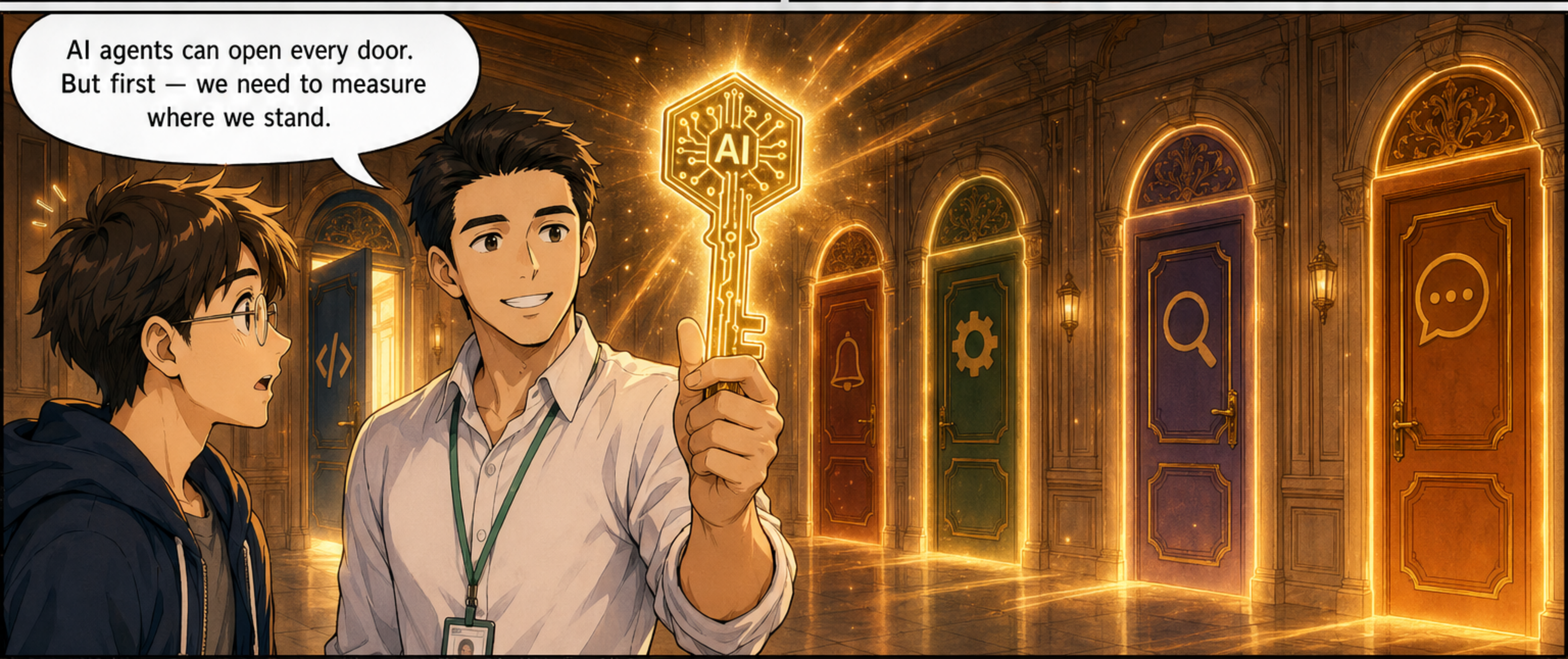
Think of your engineering work as five rooms. Right now, AI only enters one.



Incident Response — manual log analysis, repeated diagnosis, postmortem writing.



Communication — meetings for context sharing, status reports, extracting action items.



AI agents can open every door. But first — we need to measure where we stand.



Right now, your team sees AI productivity as this –

But the real potential is **THIS.**

AI PAIR-PROGRAMMING
Faster development with AI as your engineering partner.

AI AUTO-TRIAGING INCIDENTS
Instantly analyze logs, identify root cause, and suggest actions.

AI AUTOMATED MAINTENANCE
Proactively detect issues, remediate, and keep systems healthy.

AI MEETING SUMMARY
Capture, summarize, and turn meetings into action.

AI FIRST-PASS CODE REVIEW
Catch more issues earlier with intelligent reviews and suggestions.

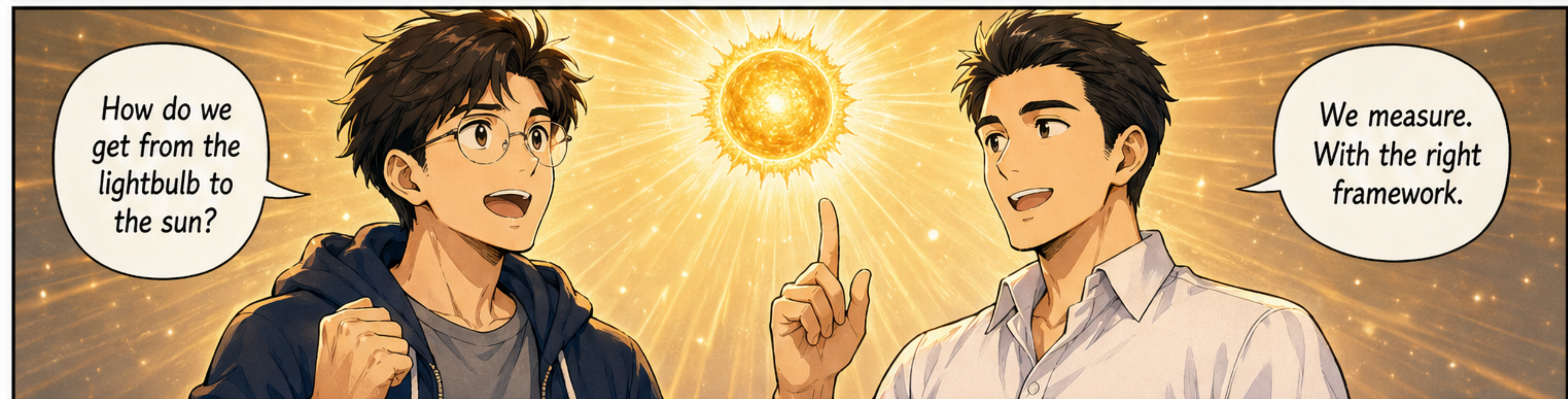
SEV-1 INCIDENT
Root Cause
• Memory Leak in Service X
• Deploy at 14:32
Suggested Actions
• Restart Service X
• Monitor Metrics

MAINTENANCE TASKS
✓ Rotate Logs ✓
✓ Clean Old Backups ✓
✓ Optimize Indexes ✓
✓ Update Dependencies ✓
✓ Validate Configs ✓
ALL TASKS COMPLETE ✓

MEETING SUMMARY
• Project update
• Blockers
• Decisions
• Action Items
ACTION ITEMS
✓ Fix API bug
✓ Update docs
✓ Review PR #123

CODE REVIEW
✓ Null Safety
✓ Error Handling
✓ Edge Cases
✓ Performance
SUGGEST IMPROVEMENT

```
if (user == null) {  
  return;  
}
```



How do we get from the lightbulb to the sun?

We measure. With the right framework.

CODING

```
Doilerplate.py
import os
import logging
from typing import List

def main():
    logger = logging.getLogger(__name__)
    try:
        pass
    except Exception as e:
        logger.exception(e)

test_example.py
def test_example():
    assert True

config.yaml
service:
  name: user-service
  port: 8080
  env: production

autocomplete
1 for i in range(len(data)):
2   process_item(data[i])
3   log.info(f"Processed {i}")
4   return results
```

- Write Code
- Run Tests
- Fix Errors
- Update Docs
- Create PR

LEVEL UP:
FULL AI AGENT
(MULTI-STEP TASKS)

I can do more for you!

Deeper delegation — not just autocomplete, but full agent tasks

INCIDENTS

3:00 AM

ALERTS

- High Error Rate api-gateway
- 5xx Error Spike payments-service
- Latency High user-service
- DB Connections Exhausted

DASHBOARD

application.log

```
02:59:58 ERROR PaymentService - Timeout
02:59:58 ERROR PaymentService - Retry failed
02:59:59 WARN CircuitBreaker - Opened
02:59:59 ERROR PaymentService - Timeout
02:59:59 ERROR PaymentService - Retry failed
02:00:00 ERROR PaymentService - Timeout
03:00:00 ERROR PaymentService - Retry failed
03:00:01 ERROR DatabasePool - Connection timeout
03:00:01 ERROR PaymentService - Timeout
... (scrolling)
```

CHECK LOGS VERIFY ALERTS ESCALATE?

CAFFEINE PLEASE

INCIDENT NOTES

The biggest untapped opportunity — auto-triage, log analysis, postmortem drafts

MAINTENANCE

MAINTENANCE TASKS

- Patch Servers
- Rotate Certificates
- Update Dependencies
- Backup Verification
- Compliance Check
- Log Retention
- Clean Up Resources
- Security Scans

ROUTINE MODE

PATCH SERVERS

- Step 1... ✓
- Step 2... ✓
- Step 3... ✓

ROTATE CERTS

- Step 1... ✓
- Step 2... ✓
- Step 3... ✓

CHECK COMPLIANCE

- Step 1... ✓
- Step 2... ✓
- Step 3... ✓

UPDATE DEPS

- Step 1... ✓
- Step 2... ✓
- Step 3... ✓

LOG RETENTION

- Step 1... ✓
- Step 2... ✓
- Step 3... ✓

SAME TASKS. EVERY WEEK. 😞

Rule-based, repetitive — ideal for AI automation

CODE REVIEW

87 UNREVIEWED PULL REQUESTS

PR #421

PR #422

PR #423

REVIEW COMMENTS

- Style issue
- Naming convention
- Line too long
- Style issue
- Naming convention
- Line too long

AI handles first-pass; humans focus on architecture

COMMUNICATION

Inbox - Engineering

- Sarah (PM) Need update on Q2 proj... 10:21 AM
- David (Design) Feedback on the new fl... 9:47 AM
- Alex (Ops) Incident follow-up 9:12 AM
- ... 12 more

customer-support@

- RE: Bug in checkout flow Can you provide an update?
- RE: Feature request When will this be available?
- RE: API rate limits We're hitting limits again.
- ... 5 more

eng-general

- Mike 10:02 AM Deploy went well! 🚀
- Priya 10:03 AM Can you share the metrics?
- Tom 10:04 AM On it.

Weekly Status Report

- Completed
 - Improved caching layer
 - Fixed payment timeout issue
- In Progress
 - Refactor auth service
 - Database migration
- Blockers
 - Waiting on third-party API
- Next Steps
 - Load testing
 - Security review

TO-DO:

- Update report
- Prep slides
- Review deck
- Sync w/ team

Meeting Invite

Quarterly Review

Tomorrow, 10:00 AM

30 min

Join Microsoft Teams Meeting

Accept Maybe Decline

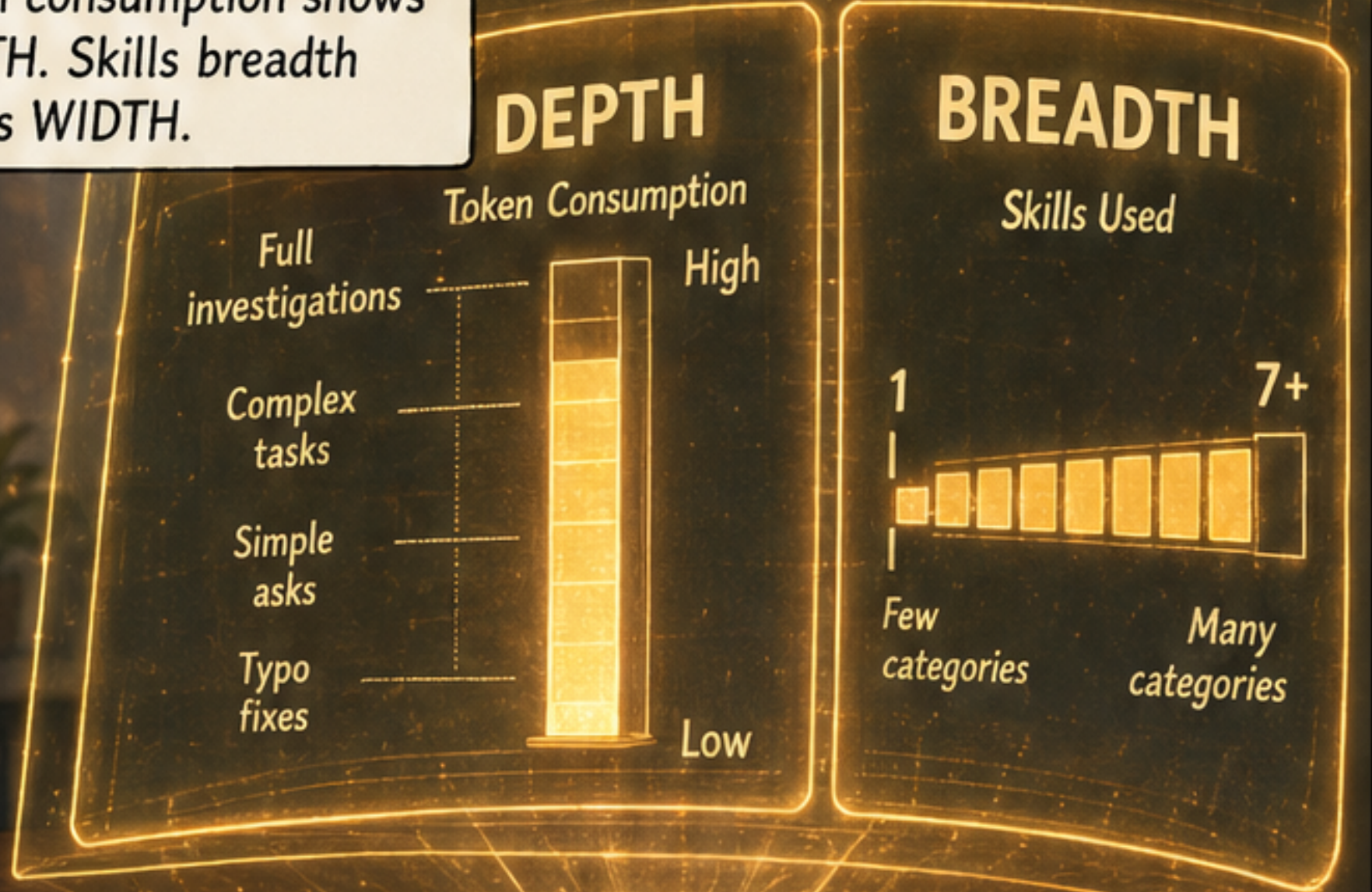
Summaries, action items, meeting prep — underexplored but high-potential

Here's how we measure — five metrics, two dimensions.



Quantitative — automatic, objective, trackable.

Token consumption shows DEPTH. Skills breadth shows WIDTH.



Qualitative — engineer-driven insights.

What pain exists, what to build next, how mature is adoption.



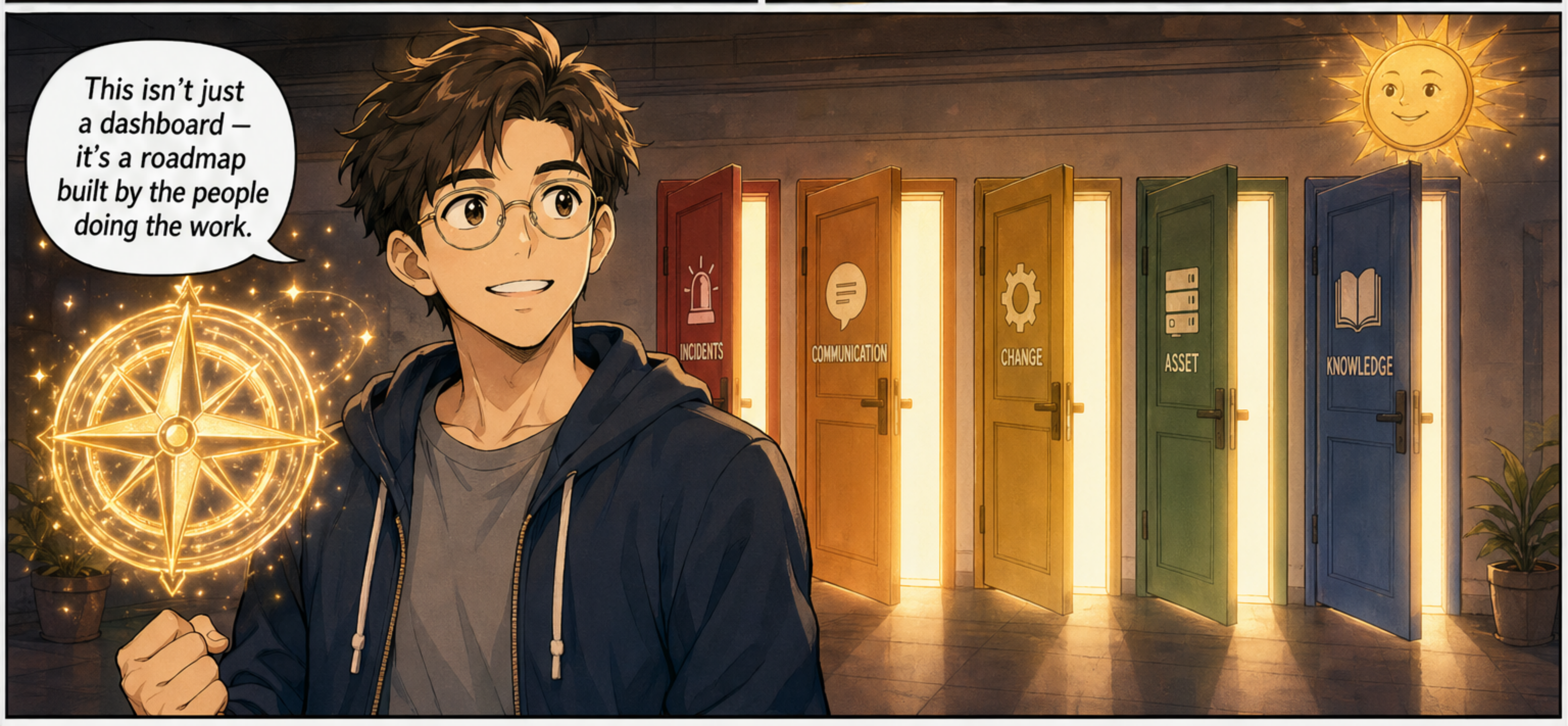
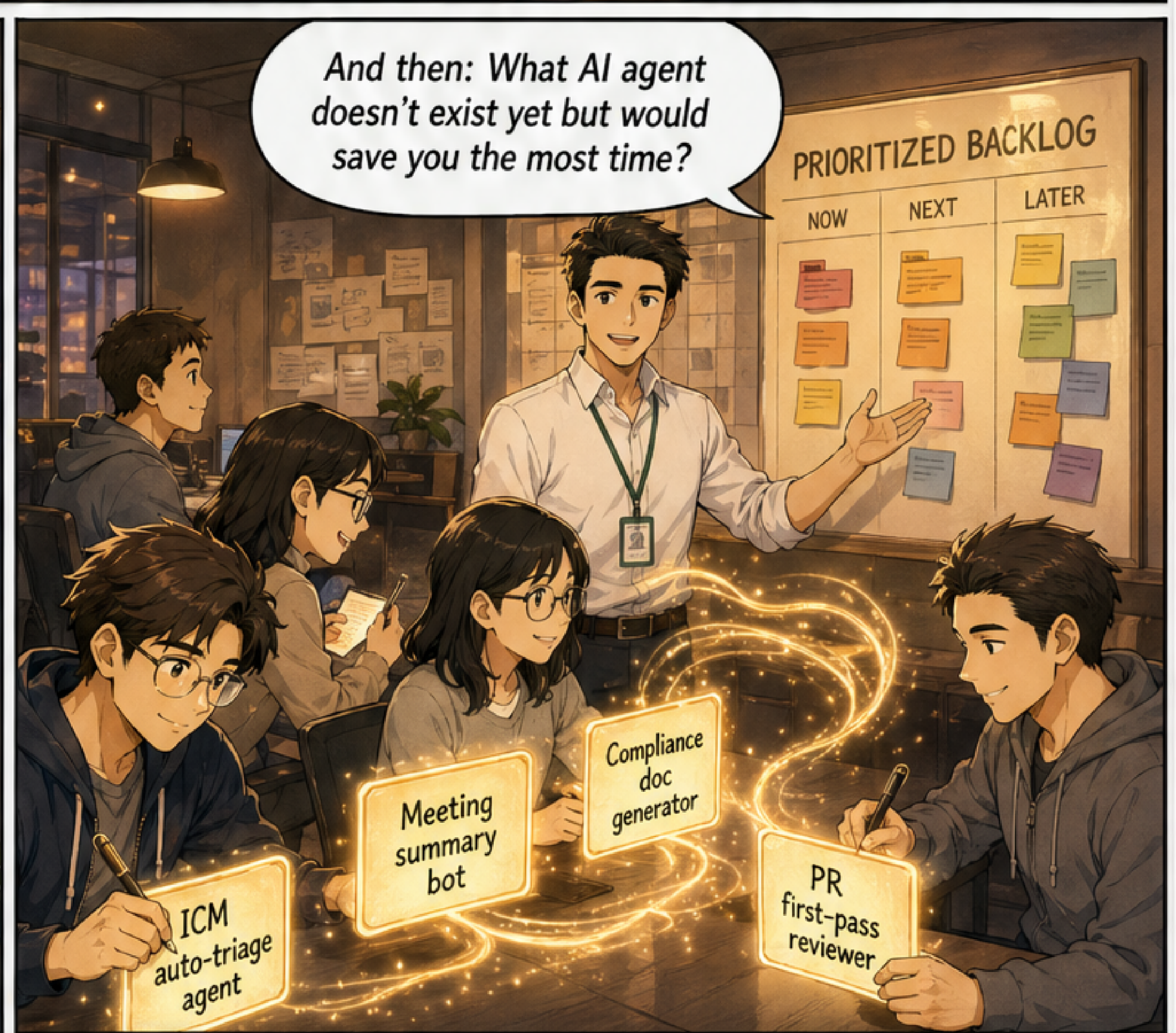
High

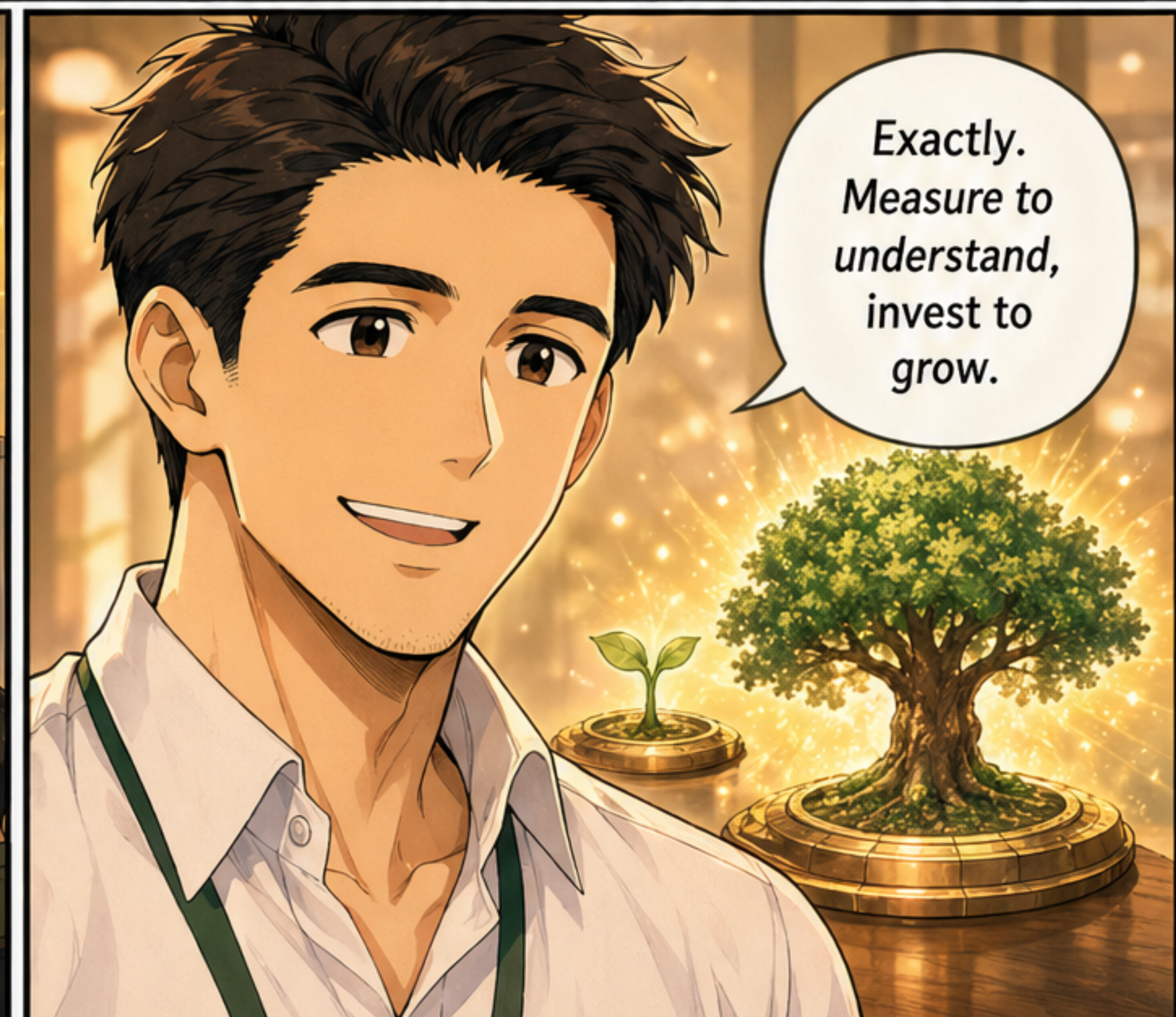
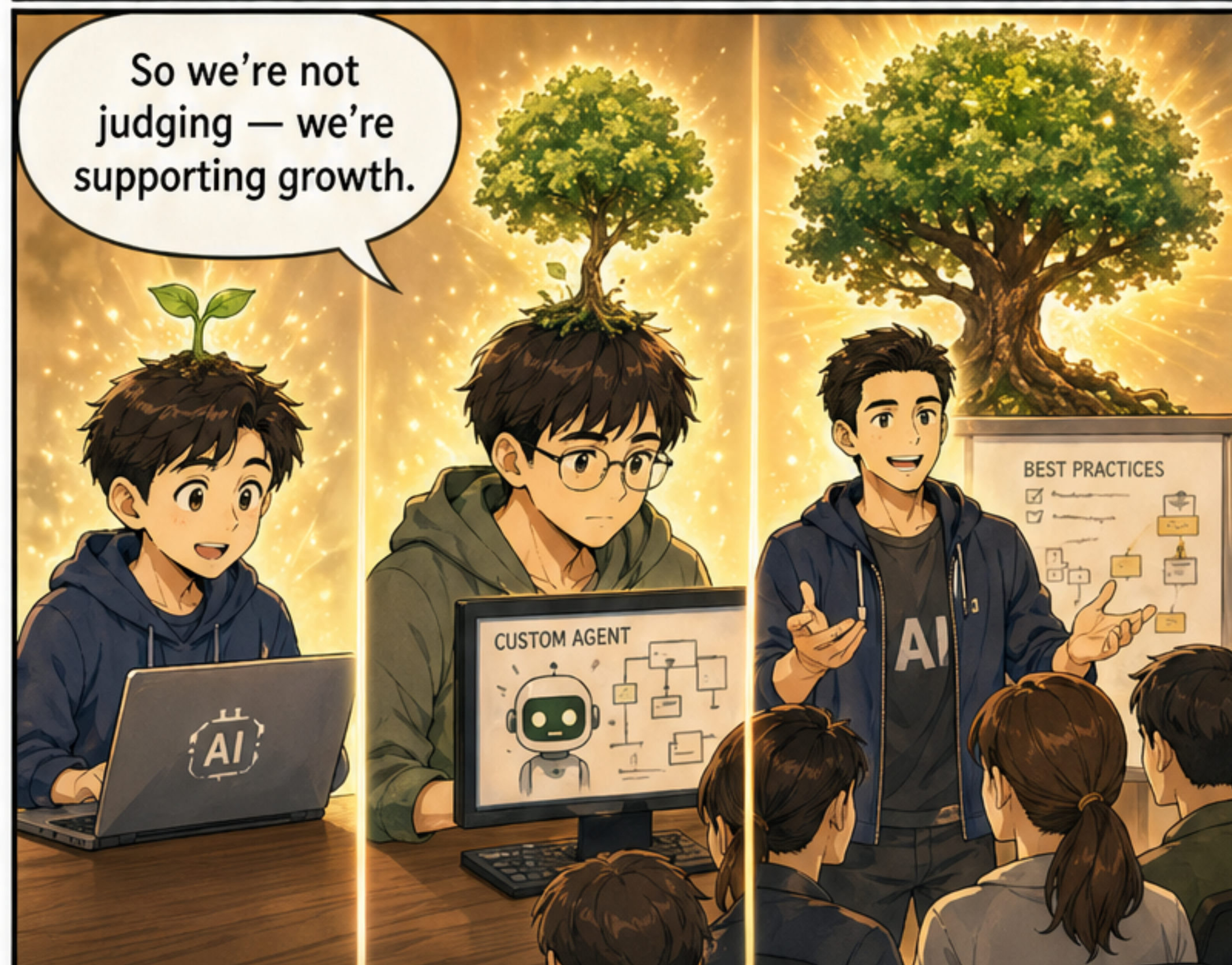
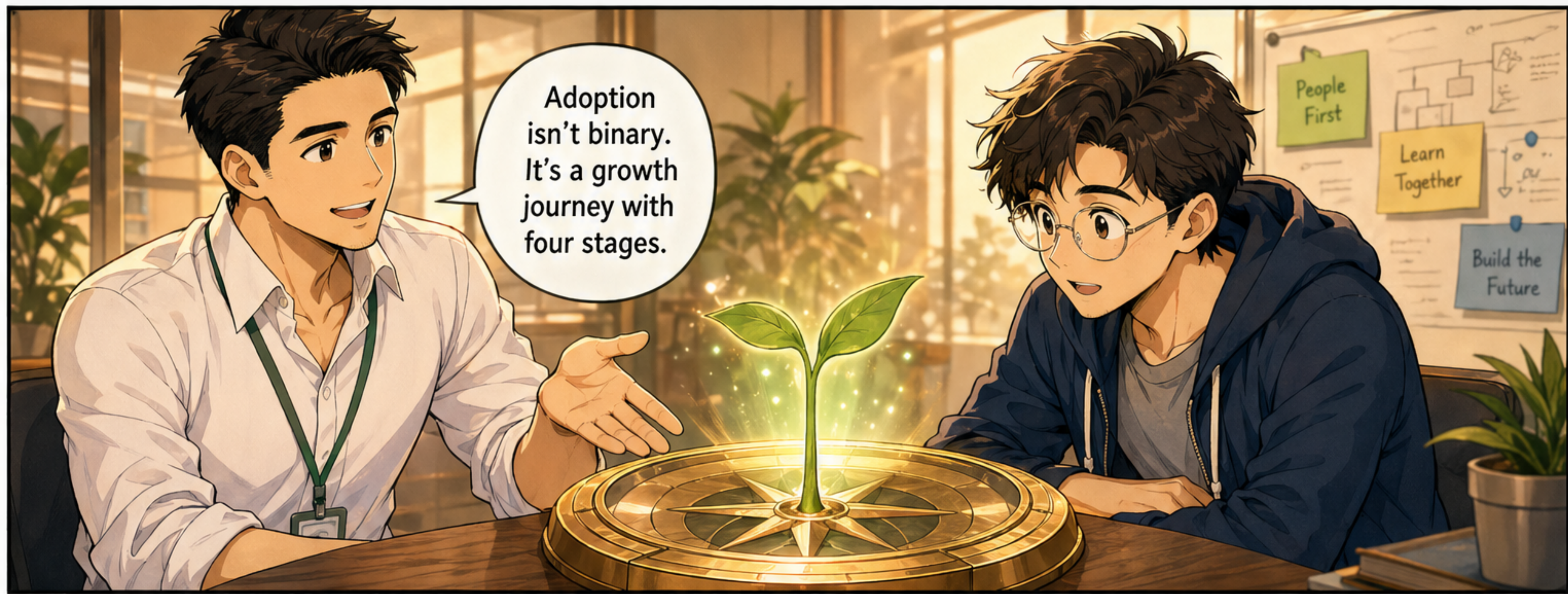
Low

TOKEN CONSUMPTION

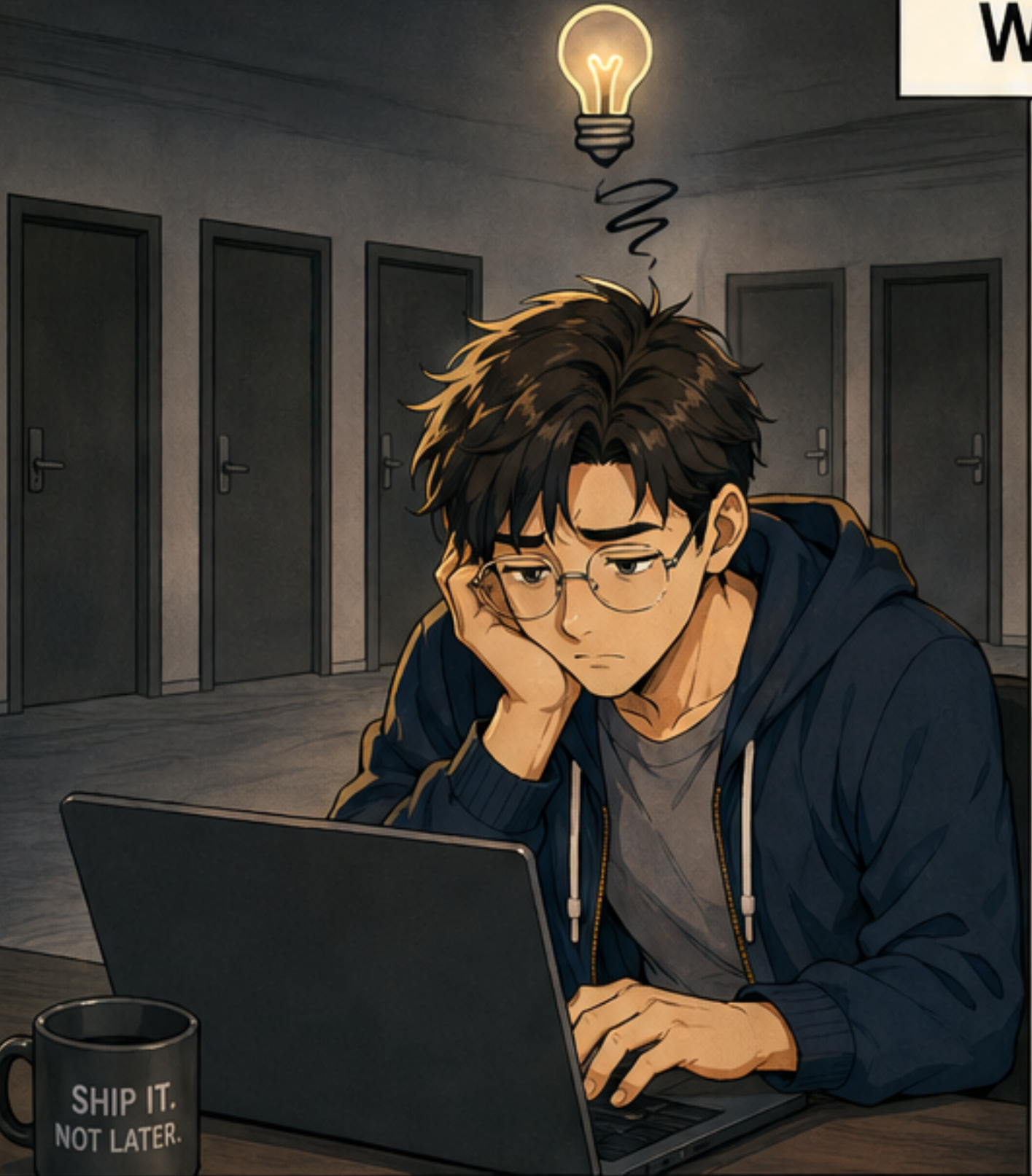


So the goal is high depth AND high breadth — truly AI-native!





Week 1 vs. Week 4



The data tells the story – we went from 2 AI skills to 7 in one month.

AI ADOPTION DASHBOARD

Token Consumption (Monthly)

| Week | Token Consumption (Monthly) |
|------|-----------------------------|
| Wk 1 | 1M |
| Wk 2 | 2M |
| Wk 3 | 3M |
| Wk 4 | 5M |

AI Skills Used (Cumulative)

| Week | AI Skills Used (Cumulative) |
|--------|-----------------------------|
| Week 1 | 2 |
| Week 4 | 7 |

Engineer Survey Responses (Top Themes)

automation, context switching, escalations, visibility, summaries, ICM triage, knowledge search, oncall support, status reports, incident noise, RCA insights, documentation, runbooks, alerts, learning, faster debugging.

And here's where we should invest next – straight from the engineers' own requests.

5-METRIC FRAMEWORK

- PRODUCTIVITY** (Hours Saved)
- QUALITY** (Escapes Reduced)
- RELIABILITY** (MTTR Improved)
- KNOWLEDGE HEALTH** (Reuse & Documentation)
- ENGINEER EXPERIENCE** (Satisfaction)

This is exactly what we needed. Let's fund the ICM agent first.

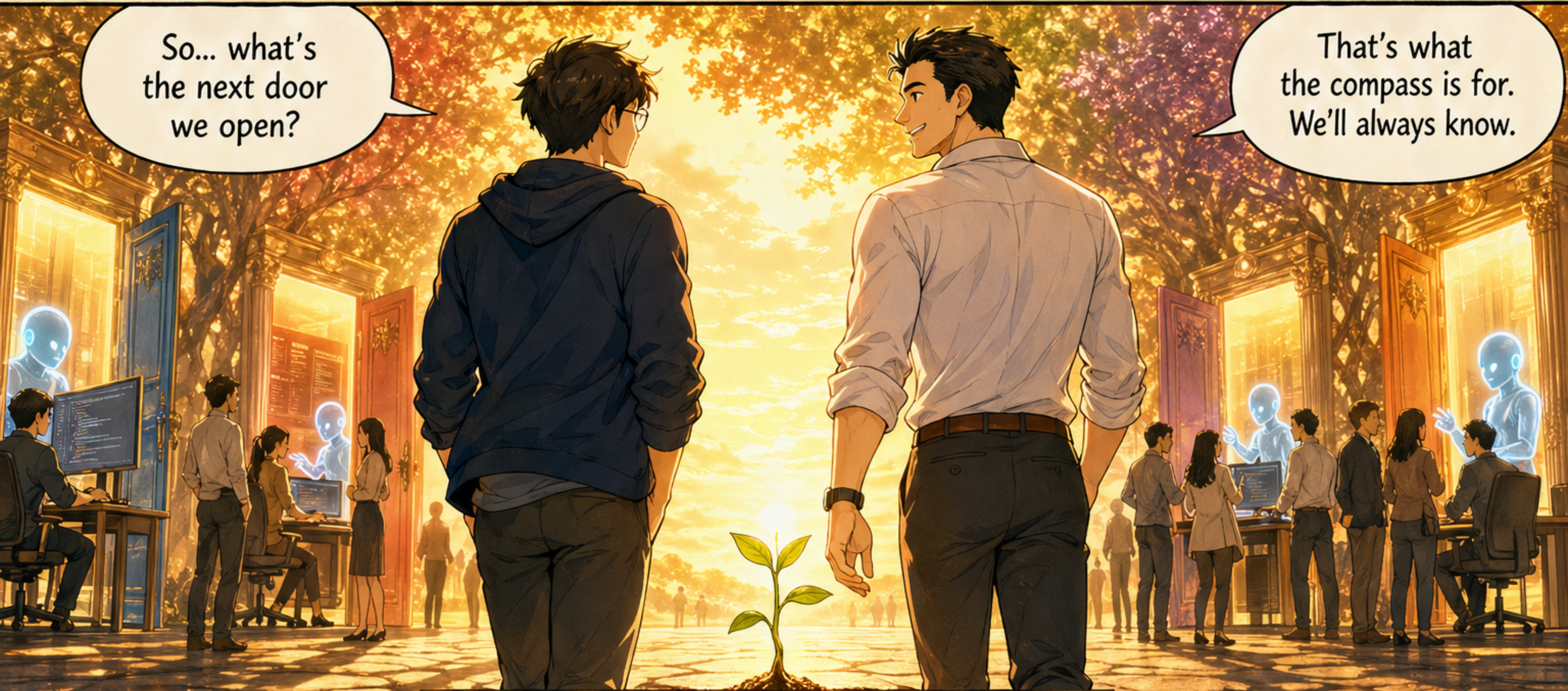
TOP INVESTMENT OPPORTUNITIES

- ICM TRIAGE AGENT** - Highest Impact, Highest Demand
- STATUS REPORT AGENT
- RCA AGENT
- KNOWLEDGE AGENT
- ONCALL COACH AGENT



So... what's the next door we open?

That's what the compass is for. We'll always know.



Measure. Invest. Grow. Repeat.