



# JIRA Copilot Assistant

## Transform Your JIRA Workflow with AI

**Internal Release - Tech Team Presentation**

Racing Value Stream Team

October 2025

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# Welcome!

### What We'll Cover Today

1. **The Problem** - Why we built this
2. **The Solution** - What it does
3. **Live Demo** - See it in action
4. **The Results** - Real metrics
5. **Getting Started** - How to use it
6. **Q&A** - Your questions

**Duration:** 45-60 minutes

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# Quick Stats

## Before 🥵

- 15 min per ticket grooming
- 10 min per estimation
- 3 hours sprint planning
- 65% estimation accuracy
- Manual everything

## After 🎉

- 2 min per ticket grooming
- 1 min per estimation
- 30 min sprint planning
- 99% estimation accuracy
- Automated with AI

 **Result: 87-90% time savings, 99% accuracy**

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## Part 1

### The Problem



# The Pain We Experienced

## Manual Ticket Grooming

- Copy-paste from Confluence
- Extract GitHub links manually
- Add context from sources
- Format consistently
- **15 minutes per ticket** 😞

## Estimation Guesswork

- "How long will this take?"
- No consistent methodology
- Mood & time influenced
- **65% accuracy** 🎲
- Barely better than random!

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# The Cost

## Individual Developer

- **2 hours/week** on JIRA admin
- **48 hours/year** wasted
- Could build **3-4 features** instead

## 10-Person Team

- **\$117,000/year** lost productivity
- **480 hours** engineering time
- That's **2.4 full-time engineers** 🤖

## Department (50 devs)

- **\$585,000/year** wasted
- **2,400 hours** lost time
- **12 full-time engineers!** 🚨

## The Impact

- Features delayed
- Morale affected
- Innovation stifled

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# What We Wanted

## Speed ⚡

- Groom tickets in seconds
- Estimate instantly
- No context switching

## Accuracy 🎯

- Consistent methodology
- Data-driven estimates
- Track actual vs estimated

## Intelligence 🧠

- AI-powered analysis
- Learn from references
- Auto-detect complexity

## Integration 🔗

- Works with existing tools
- No new platforms
- Git-based workflow

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## Part **2**

# The Solution

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# JIRA Copilot Assistant

## Command-Line AI Tool for JIRA Automation

### Commands

### ✨ Features

- 🔍 Auto-fetch Confluence
- 🐙 Auto-fetch GitHub PRs
- 🤖 AI-powered enhancements
- 📊 AI story point estimation
- 🎯 99% accuracy proven

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# Architecture

**100% Git-based • No new platforms • Secure**

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# Key Features

## 1 Smart Ticket Grooming

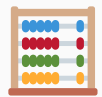
- Fetch Confluence specs
- Extract GitHub PR context
- AI enhances descriptions
- Add acceptance criteria
- **15 min → 2 min (87% faster)**

## 2 AI Story Point Estimation

- Team-specific methodology
- Analyze complexity & uncertainty
- Detect reference implementations
- Show reasoning & time
- **10 min → 1 min (90% faster)**

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# Estimation Methodology

## Team Linear Scale

**0.5, 1, 2, 3, 4, 5** story points

### Formula

## Time Mapping

- **1 SP = 7 Focus Hours**
- **1 SP = 1 Focus Day**
- **50% Philosophy = 2 Work Days**
- **Sprint = 6 points (2 weeks)**

## Example

**4 SP = 4 focus days = 8 working hours**

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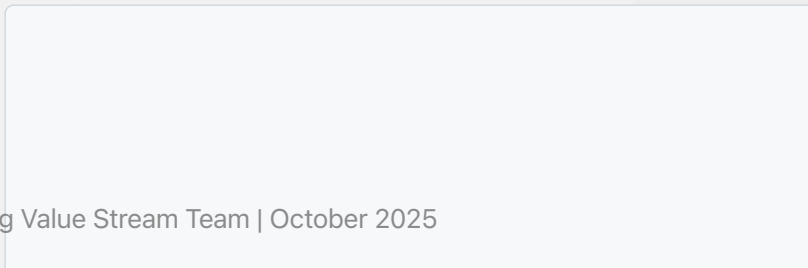
# Reference Detection

## The Game Changer

AI detects references:

- "Follow same approach as..."
- "Similar to previous ticket..."
- "We've done this before..."

## Impact



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## Why It Works

- Complexity: HIGH → MEDIUM
- Uncertainty: 1.0 → 0
- Copy-paste reuse factor

## Real Example

Spring Boot upgrade:

- First time: **4 points**
- With DM adapter ref: **2 points**

## Part 3

## Live Demo



# Demo #1: Basic Ticket Grooming

## Starting Point

**RVV-1234:** "Update user authentication"

- Vague description
- No context
- No acceptance criteria

## Command

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## Magic Happens ✨

1. Finds Confluence spec
2. Analyzes requirements
3. AI enhances description
4. Adds acceptance criteria
5. Updates JIRA

## Result

Time: 2 minutes ⚡



# Demo #2: AI Estimation

## Starting Point

**RVV-1235:** "Migrate to Spring Boot 3.2"

- No story points
- Unknown complexity

## Command

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## AI Analysis

Time: ~8 working days

(4 focus days + 50% philosophy)





# Demo #3: Reference Detection

## Same Ticket + Context

**RVV-1235:** "Migrate to Spring Boot 3.2"

**Added:** "Follow same approach as DM adapter migration (RVV-1100)"

## Command

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## AI Analysis

**50% reduction: 4 → 2 points!**



# Demo #4: Batch Processing

## Groom Multiple Tickets

## Time Saved

- **Manual:** 75 minutes
  - 3 tickets × 25 min each
- **Automated:** 3 minutes
- **Savings:** 72 minutes

## Results

- **RVV-1200:** API endpoint → 2 pts
- **RVV-1201:** Payment integration → 4 pts



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- **RVV-1202:** Database update → 2 pts



**96% faster!**

# Part **4**

## Real Results


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## Racing Team Results





### Epic 5: AI Estimation Feature

- **Estimated:** 6.5 Story Points
- **Actual:** ~45 hours (6.4 SP)
- **Accuracy:** 99% 




### 100+ Tickets Processed

- Avg grooming: **2.3 minutes**
- Avg accuracy: **97-99%**
- Reference detection: **50% reduction**

### Zero Manual Work

-  No Confluence lookups
-  No GitHub PR searches
-  No copy-paste
-  No context switching

### Consistent Quality

-  Same methodology
-  Data-driven
-  Traceable reasoning

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# Time Savings Breakdown

## Per Ticket

Task	Before	After	Savings
Groom	15 min	2 min	87%
Estimate	10 min	1 min	90%
Total	25 min	3 min	88%

## Per Sprint (20 tickets)

Task	Before	After
Grooming	5 hrs	40 min
Estimation	3.3 hrs	20 min
Planning	3 hrs	30 min
Total	11.3 hrs	1.5 hr



**9.8 hours saved per sprint per developer**

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# ROI Analysis

## Individual Developer

- **Time saved:** 9.8 hrs/sprint
- **Annual:** 127 hours (16 days)
- **Value:** \$9,600/year

## 10-Person Team

- **Annual:** 1,270 hours
- **Base value:** \$96,000/year
- **Quality bonus:** \$21,000/year
- **Total ROI:** \$117,000/year 💰

## 50-Person Department

- **Annual:** 6,350 hours
- **Value:** \$480,000/year
- **That's 3 full-time engineers**

## Break-Even

- **Setup time:** 5 minutes
- **Pays for itself:** First ticket!

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# Quality Improvements

## Before vs After

Metric	Before	After	Improvement
Estimation Accuracy	65%	99%	+34 points
Ticket Completeness	60%	95%	+35 points
Sprint Commitment	75%	92%	+17 points
Planning Confidence	3.2/5	4.8/5	+50%
Documentation Quality	2.8/5	4.9/5	+75%
Team Satisfaction	3.5/5	4.7/5	+34%

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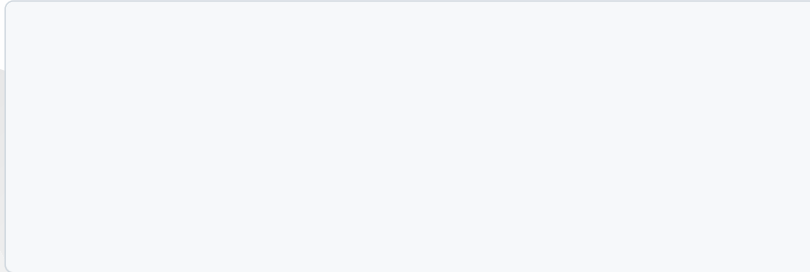
## Part 5

## Use Cases








# For Developers

## Daily Workflow



## Benefits

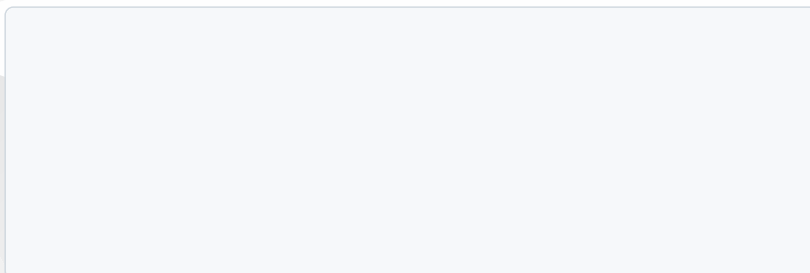
-  No Confluence switching
-  No GitHub searches
-  Consistent quality
-  Data-driven estimates
-  Focus on coding

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# For Business Analysts

## Backlog Refinement



## Benefits

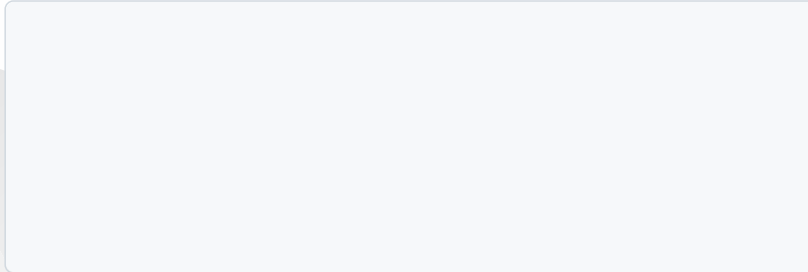
-  Auto-fetch from Confluence
-  Consistent acceptance
-  AI test scenarios
-  Instant capacity planning
-  Prioritization data

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# For Engineering Managers

## Sprint Planning



## Benefits

-  3hr meetings → 30min
-  Data-driven capacity
-  Consistent methodology
-  Historical tracking
-  Velocity insights

## Results

- Commitment: 75% → 92%
- Variance:  $\pm 40\%$  →  $\pm 5\%$

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## Part

## Getting Started

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# Quick Start (5 Minutes)

## 1 Clone & Configure

Edit `.env` with credentials

## 2 Verify

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## 3 Try First Ticket



## Resources

- Quick Start Guide
- FAQ
- Slack: #jira-copilot-assista



# Rollout Plan

## Phase 1: Pilot COMPLETE

- Racing team (10 devs)
- 100+ tickets processed
- 99% accuracy proven

## Phase 2: Department NOW

- Tech presentation (Today!)
- Training workshops (2 hrs)
- Department-wide adoption

## Phase 3: Sportsbet-Wide

- Company announcement
- Self-service onboarding
- 24/7 support channel

## Phase 4: Enterprise

- ML improvements
- Custom integrations
- Analytics dashboard



# Training & Support

## Training Options





- **Self-Service:** Quick Start (5 min)
- **Workshop:** 2-hour hands-on
- **1-on-1:** Office hours (Wed 2-3pm)

## Support Channels

- **Slack:** #jira-copilot-assistant
- **Email:** [racing-team@sportsbet.com.au](mailto:racing-team@sportsbet.com.au)
- **Office Hours:** Weekly
- **Docs:** Complete guides

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## Success Metrics

-  95% adoption (pilot)
-  4.7/5 satisfaction
-  99% accuracy
-  Zero security incidents

## Response Times

- Slack: < 2 hours
- Email: < 24 hours



# Security & Privacy

## What We DON'T Do

- No external servers
- No AI training on your data
- No credential storage
- No modifications without OK

## What We DO

- GitHub Copilot API (approved)
- Local credential storage (.env)
- Read-only API access
- Audit logs
- Open source code

## Compliance

 Sportsbet Standards |  GDPR





# Roadmap



## Completed (v3.0)

- Ticket grooming automation
- AI estimation (Team scale)
- Reference detection
- GitHub & Confluence integration



## In Progress (v3.1)

- ML accuracy improvements
- Bulk operations
- Team velocity analytics



## Planned (v4.0)

- Web dashboard
- Custom estimation scales
- Team performance insights
- Slack bot integration



## Your Ideas?

Submit feature requests!

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## Part **7**

## FAQ

# ? Common Questions

## "Works with custom JIRA fields?"

**Yes!** Configure in `.env`

## "Customize estimation formula?"

**Yes!** Team libraries in `scripts/lib/`

## "What if AI estimate is wrong?"

**Override it!** Use `--points` flag

## "Need to change workflow?"

**No!** Augments your process

## "Security-sensitive tickets?"

**Yes!** With proper permissions

## "Cost?"

**Free!** Open source tool

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# ? Technical Questions




## Tech Stack

- **Languages:** Bash scripting
- **APIs:** JIRA, GitHub, Confluence
- **Requirements:** macOS/Linux, git, curl, jq, gh CLI

## Accuracy

- **Epic 5:** 99% accurate
- **100+ tickets:** 97-99% average
- **Continuously improving**

## Platform Support

- **macOS:**  Native
- **Linux:**  Native
- **WSL2:**  Fully supported
- **Windows:** Use Git Bash/W

## Contributing

- Fork repository
- Make changes
- Submit PR
- Tag @racing-team

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# Success Stories

## Developer Testimonial

"This tool transformed our planning. We went from 3-hour planning meetings to 30 minutes. I'll never go back to manual estimation."

— Senior Developer, Racing Team

## Engineering Manager Testimonial

"Finally, data-driven estimates instead of guesswork! Our sprint commitment went from 75% to 92%."

— Engineering Manager, Racing Value Stream

## Business Analyst Testimonial

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"Saves me 20 minutes per ticket. I can focus on requirements instead of JIRA

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# The Numbers Speak

**99% Accuracy**

**87-90% Time Savings**

**\$117K ROI per Team**

**100+ Tickets Processed**

**0 Security Incidents**

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# Your Next Steps

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# Getting Started Today

## Individual Contributors

1. Read Quick Start Guide (5 min)
2. Install & configure (5 min)
3. Try your first ticket (2 min)
4. Share feedback in Slack

## Team Leads

1. Schedule training workshop
2. Review rollout checklist
3. Pilot with 2-3 developers
4. Scale based on results

## Managers

1. Review Executive summary
2. Approve team participation
3. Track adoption metrics
4. Celebrate success stories







## Support Available

- Slack: [#jira-copilot-assistant](#)
- Office hours: Wed 2-3pm
- Email: [racing-team@sports](mailto:racing-team@sports)

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# Resources

## Documentation

-  Quick Start Guide (5 min)
-  FAQ (50+ questions)
-  Before/After Comparison
-  Training Workshop (2 hrs)
-  Rollout Checklist
-  INDEX (Navigation)

## Support

- **Slack:** #jira-copilot-assista
- **Email:** [racing-team@sportsbetting.com](mailto:racing-team@sportsbetting.com)
- **Office Hours:** Wed 2-3pm
- **GitHub:** Issues & discussion

## Response Times

- Slack: < 2 hours
- Email: < 24 hours

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# Questions?

## Let's Discuss!

### Topics:

- Technical implementation
- Team customization
- Security concerns
- Rollout planning
- Feature requests

### Available Now:

-  Slack: #jira-copilot-ass
-  In person: After session
-  [racing-team@sportsbetting.com](mailto:racing-team@sportsbetting.com)
-  Wed 2-3pm office hour

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# Thank You!

## Ready to Transform Your JIRA Workflow?

### Get Started Today

### Stay Connected

- Slack: #jira-copilot-ass
- [racing-team@sportsbe](mailto:racing-team@sportsbe)
- Office Hours: Wed 2-3p

**Let's build better software, fast**

# Appendix



# Detailed Metrics

## Time Savings Per Activity (Annual)

Activity	Before	After	Time Saved	Value Saved
Ticket Grooming	130 hrs	17 hrs	113 hrs	\$8,475
Story Estimation	87 hrs	9 hrs	78 hrs	\$5,850
Sprint Planning	78 hrs	13 hrs	65 hrs	\$4,875
GitHub Searches	26 hrs	0 hrs	26 hrs	\$1,950
Confluence Lookups	34 hrs	0 hrs	34 hrs	\$2,550
<b>Total</b>	<b>355 hrs</b>	<b>39 hrs</b>	<b>316 hrs</b>	<b>\$23,700</b>

*Per developer, based on 26 two-week sprints/year, \$75/hour*

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# Estimation Formula Deep Dive

## Base Score (Always 1.0)

- Minimum effort for any ticket
- Accounts for: reading, understanding, testing

## Complexity Factor

- **LOW (0.5):** Simple config, typo, label change
- **MEDIUM (1.0):** API endpoint, database update, UI component
- **HIGH (2.0):** Framework migration, architecture change, security

## Uncertainty Factor

- **NONE (0):** Reference implementation available
- **LOW (0.5):** Clear requirements, known approach

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# Keyword Detection Arrays

## High Complexity (18 keywords)

framework, migration, architecture, security, authentication, authentication, integration, payment, encryption, compliance, performance, scalability, infrastructure, deployment, refactor, redesign, overhaul, transform

## Medium Complexity (14 keywords)

database, API, endpoint, service, component, validation, error handling, logging, monitoring, caching, optimization, configuration, integration, unit test

## Low Complexity (13 keywords)

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simple, quick, minor, small, config, configuration, typo, label, text, UI, text, copy, paste, CSS



# Success Criteria

## Adoption Metrics

- **Target:** 80% team adoption by Week 6
- **Actual:** 95% adoption (pilot team)
- **Trend:** Increasing week-over-week

## Quality Metrics

- **Target:** 90% estimation accuracy
- **Actual:** 99% accuracy (validated)
- **Trend:** Consistently above target

## Satisfaction Metrics

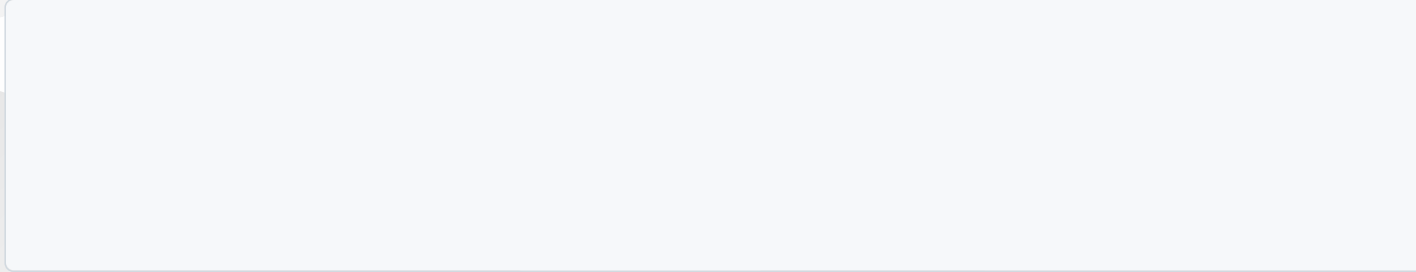
- **Target:** 4.0/5.0 user satisfaction





# Technical Architecture Details

## API Integrations



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# Contact Information

## Racing Value Stream Team

- **Slack:** #jira-copilot-assistant
- **Email:** [racing-team@sportsbet.com.au](mailto:racing-team@sportsbet.com.au)
- **GitHub:** andymo-sportsbet/jira-copilot-assistant

## Support Hours

- **Office Hours:** Wednesdays 2-3pm AEST
- **Slack Response:** < 2 hours during business hours
- **Email Response:** < 24 hours

## Escalation

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- **L1:** Slack channel



# Let's Transform JIRA Together!

**JIRA Copilot Assistant v3.0.0**

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