### Internationalization of Workflow Interfaces

Richard Wynne





### Manuscript Supply Chain





# All good research is/should only published in English





# All publishable researchers speak English





# Internationalization of manuscript supply chain

Internationalization of your workflow system





### But how?

#### Brute force code editing:

- Different code instances
- Expensive to implement
- Expensive to maintain
- No ability to "toggle" languages
- Not sustainable over new releases





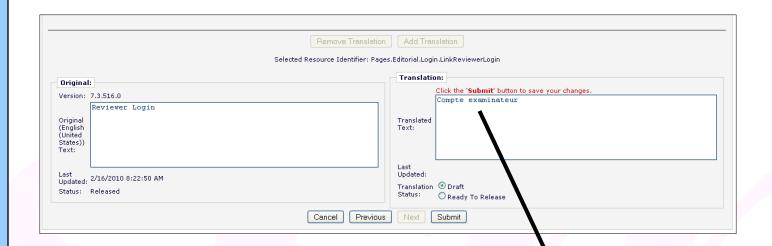
#### "Tokenization"

- Every code module text string replaced with a "token"
- Run-time replacement of "token" with translated text from a database
- Massive investment

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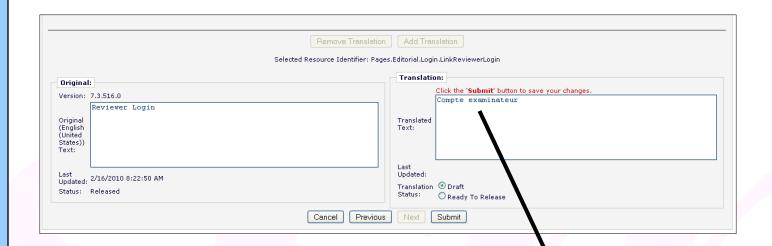


# Sustainability over multiple releases







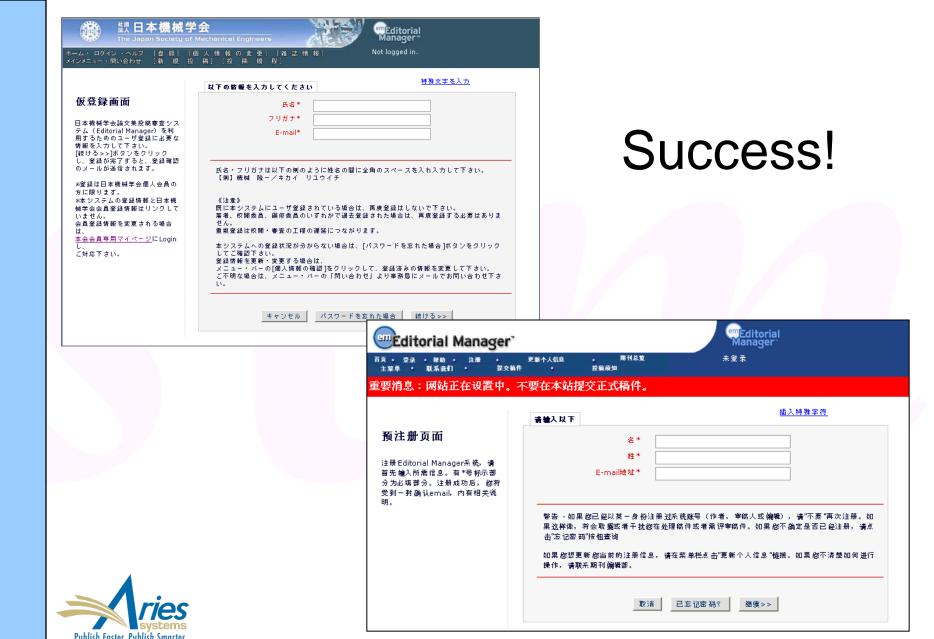


# Sustainability over multiple releases













#### Success!





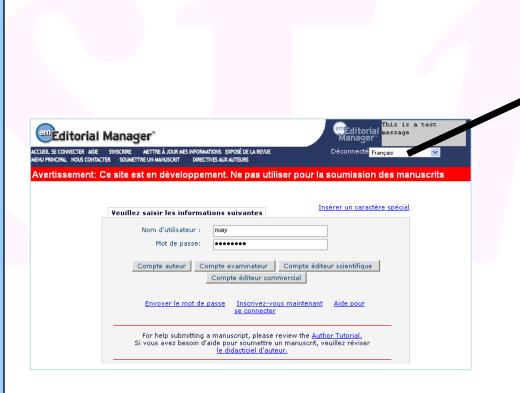


### Competitive Advantage for Publisher

- Local language publishing
- Greater market penetration
- More author relationships
- Brand enhancement
- More intellectual property



### "Toggle" – user selected interface







### Competitive Advantage for Publisher

- English language journals reaching out to target author communities (e.g. China, Brazil etc.)
- Extend author community
- Build relationships with international editors and suppliers
- Brand enhancement
- Dual language mandates



### Other factors: Unicode





### Other factors: Dual field options





### Manuscript supply chain revolution

- Workflow applications in the "cloud"
- Deeper: end-to-end
- Broader: Internationalization
- Economies of scale
- Higher capital costs to implement right architecture. Lower marginal costs to reach new markets
- Due diligence on solutions





### Supply chain revolution

- Workflow applications in the "cloud"
- Deeper end-to-end
- Broader Internationalization
- Economies of scale
- Higher capital costs to implement right architecture. Lower marginal costs to reach new markets
- Due diligence on solutions





# Internationalization of manuscript supply chain:

Problem or opportunity?





### Time's Up!

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