

RoMEO API Licensing

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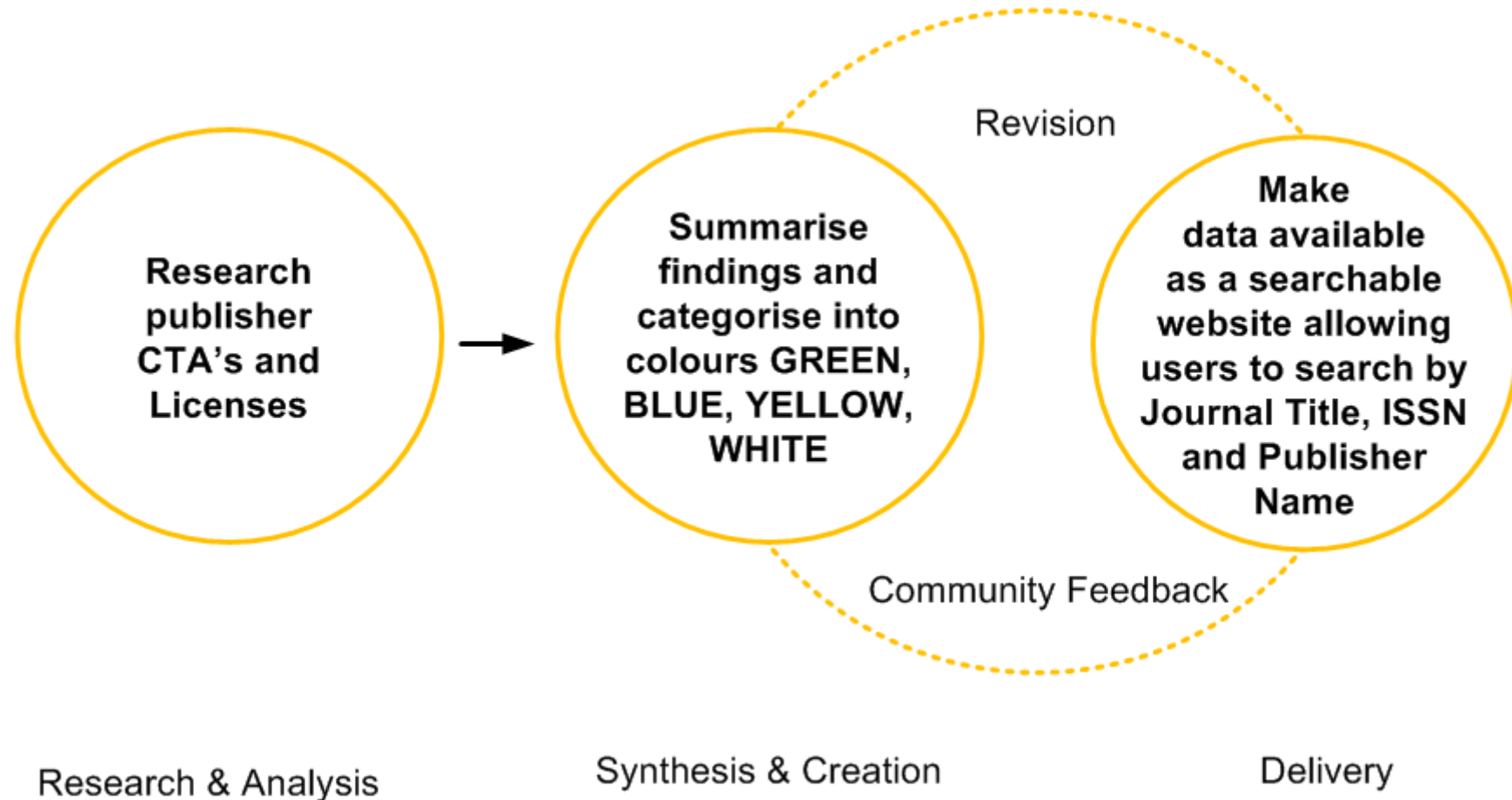


Outline

- Highlight key issues from a service development point of view and focus on:
 - Business risks
 - Service demands
 - Commercial use of the RoMEO API
 - Long term sustainability and development of the RoMEO API
 - Implications on API Users

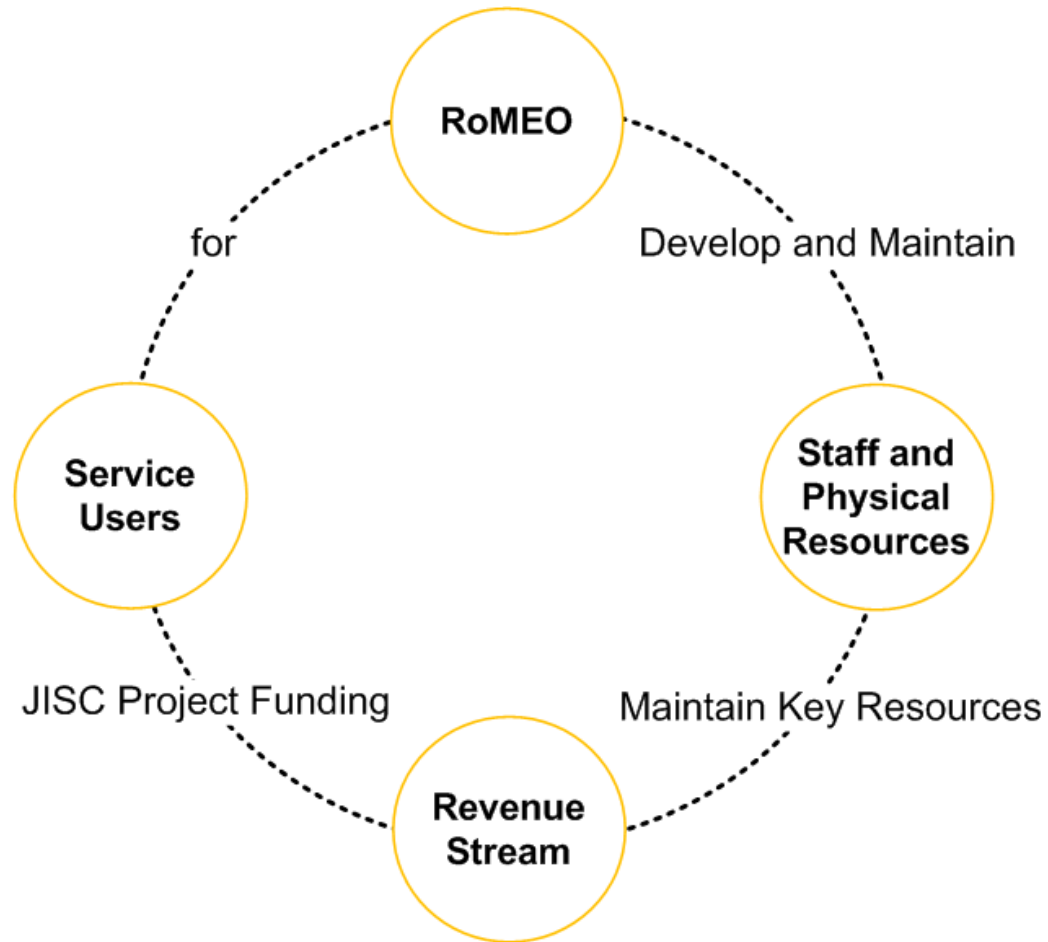
RoMEO Background

- Functional workflow for RoMEO



RoMEO Background

- Current RoMEO Business Model



RoMEO Background

- RoMEO Key Strategic Priorities 2011-12
 - Stabilise Infrastructure
 - Community Building
 - Increase User Participation
 - Deliver Lean and Efficient Services
 - Improve Quality
 - Increase Reach
 - Long Term Sustainability

RoMEO API Background

- RoMEO API started as an experiment in 2009
- Made available under a Creative Commons License
- RoMEO API is a completely open Content API no checks for:
 - Identity - who is making an API request?
 - Authentication - are they really who they say they are?
 - Authorization - are they allowed to do what they are trying to do?

Issues

- API getting over 250,000 hits per day
- Ad hoc usage patterns
- API usage is allowed under a Creative Commons License – does not cater for our commercial users
- High API use impacting the speed and performance of the RoMEO service
- Scalability of the API

Issues

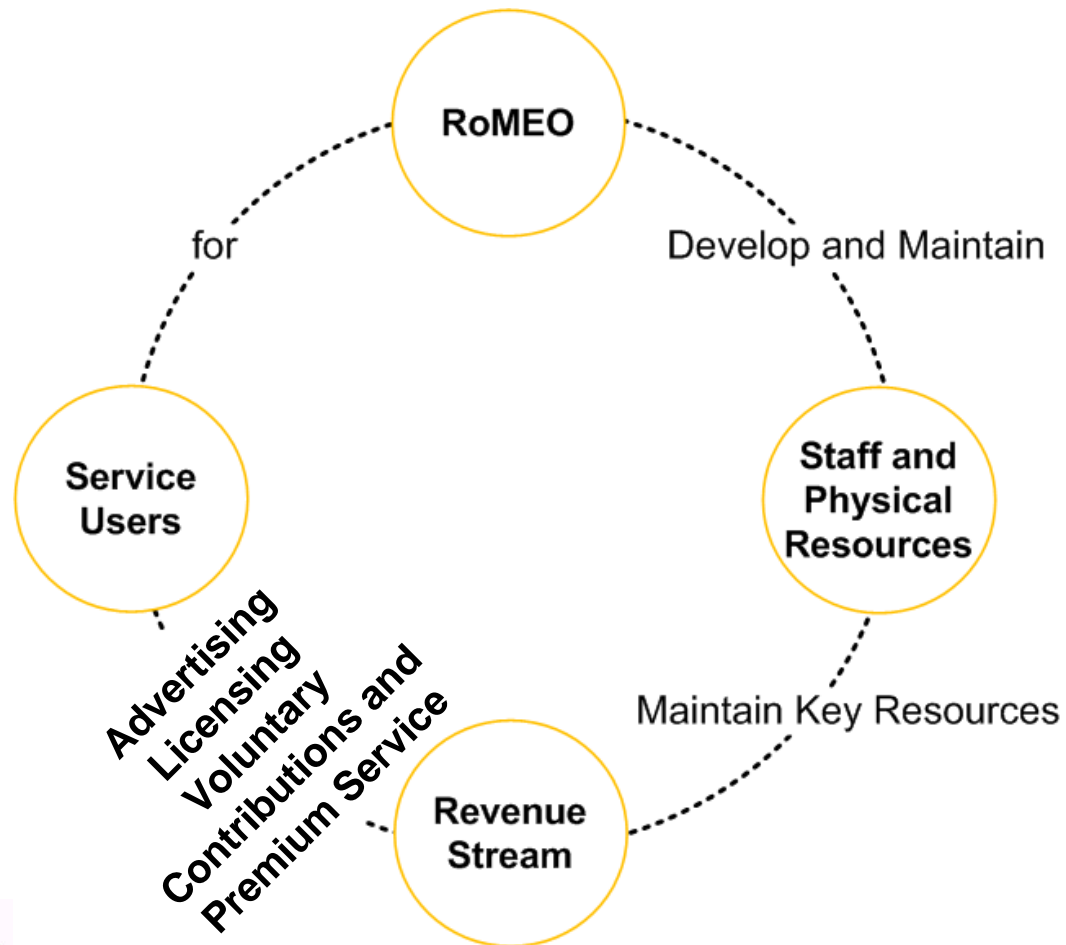
- Exposed the RoMEO Service to new risks:
 - Risk of back-end melt down - leading to a front-end melt down
 - Risk of malicious use
- Recent Internal Situation Review concluded that current situation not sustainable

Key Assumptions

- Steady growth in API users
- Rapid growth in number of requests
- Unable to upscale existing infrastructure any further
- Use of RoMEO API by commercial users - Business Continuity Planning
- Changing RoMEO Business Model

Key Assumptions

- Changing RoMEO Business Model



Implications for API Users

- All RoMEO API users will have to register with us before using our API
- RoMEO API will remain fairly open and will not require authentication or authorisation but we will be introducing the use of an API Key to establish identity
- We will be implementing traffic management features such as Rate Limits and Daily Quotas on API usage, to regulate traffic flow

Implications for API Users

- Non commercial users
 - will be allocated a free daily quota of XX calls per day, quota can be increased if required – users will need to contact us to do this

Implications for API Users

- Commercial users
 - Will have the option of creating one account with multiple API keys
 - Will be able to select from a range of free and fee based options depending upon their usage needs and requirements
 - Allowing commercial users to issue XX keys at a quota of XXXX requests, per key, per day
 - Monthly and Annual Fee Options

Implications for API Users

- We will develop API Management tools and systems that allow us to monitor and respond to traffic management
 - Users exceeding the allocated daily quota will have the option:
 - Pay per additional request OR
 - Opt for any requests over allocated quota to be dropped

Implications for API Users

- To plan for a long term and sustainable RoMEO API and to make product strategy decisions we will be collecting metrics on:
 - Who is using our API and how much are they using:
 - What parts of the API are they using?
 - How fast and good is our service
 - What latency are our customers experiencing?
 - Where are errors and user-experienced bugs happening and how often?
 - How is the API usage impacting the RoMEO Service?

Benefits for our users

- Implementing these measures will allow us to:
 - Deliver a stable RoMEO API - sustainable over the long term
 - Open up the RoMEO API for commercial use – an option which was not previously available
 - Support the long term development of the RoMEO API with revenues raised from API usage fees
 - Support the long term sustainability of the RoMEO Service

Any Questions?

RoMEO: <http://www.sherpa.ac.uk/romeo>

API: <http://www.sherpa.ac.uk/romeo/api>

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