



SOLARIS
NATIONAL SYNCHROTRON
RADIATION CENTRE



JAGIELLONIAN UNIVERSITY
IN KRAKOW



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NATIONAL SYNCHROTRON
RADIATION CENTRE

Solaris User portal

Piotr Goryl on behalf of A. Górkiewicz, J. Szota-Pachowicz (Solaris), R. Dobrzańska, T. Szepieniec, M. Dobrzycki, W. Ziajka, K. Marszałek, Ł. Palonek, A. Pułap, T. Szymocha (Cyfronet)
Hamburg, 05-04-2016
European XFEL

Localization

SOLARIS @ Jagiellonian University new Campus:

ul. Czerwone Maki 98, Kraków

N:19°53'37" E

50°01'21"



SOLARIS
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Polish Light Source

©2009 Google

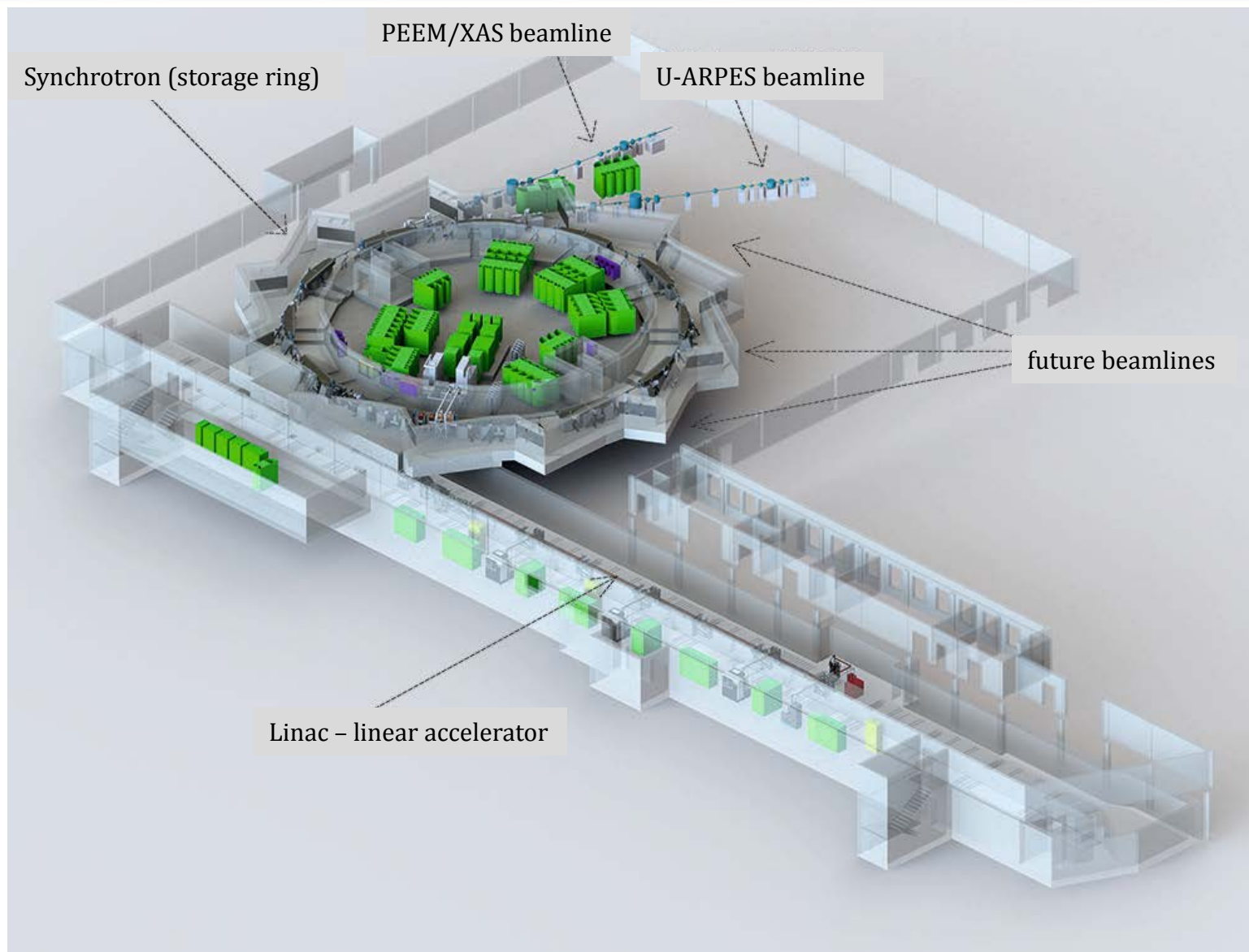
Monday, 22 September 2014

A.J. Wawrzyniak, Synchrotron SOLARIS - ALBA, Barcelona, Spain

Data uzyskania obrazu: Lip 2009

50°02'19.96" na północ 19°55'42.28" na wschód wys. 203 metrów

Wys. widoku 6.16 km

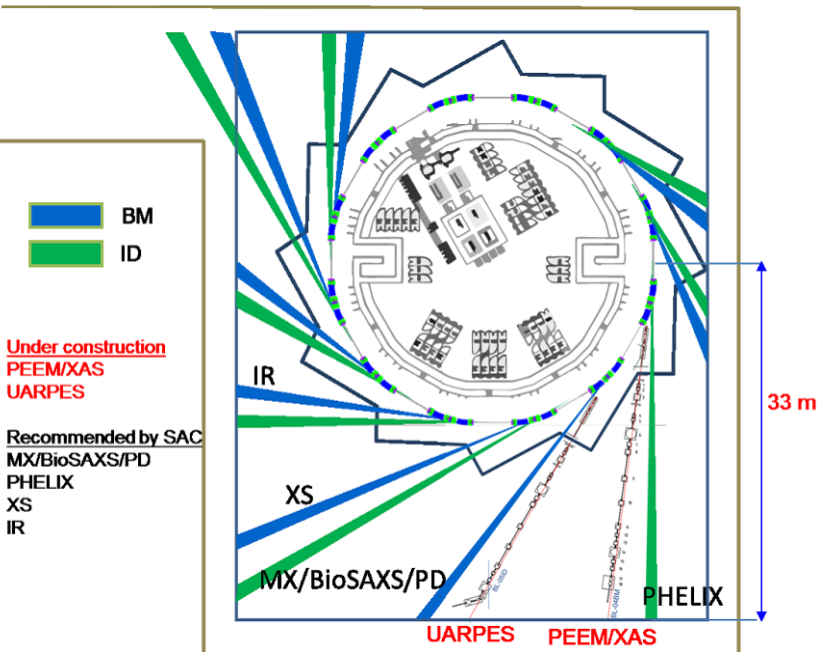


1.10.2015 20mA stored and beam ramped to 1.5GeV!



Currently: 200mA injected at 500MeV, 160mA ramped to 1.5GeV, 3h lifetime

➤ Up to 16 additional beamlines

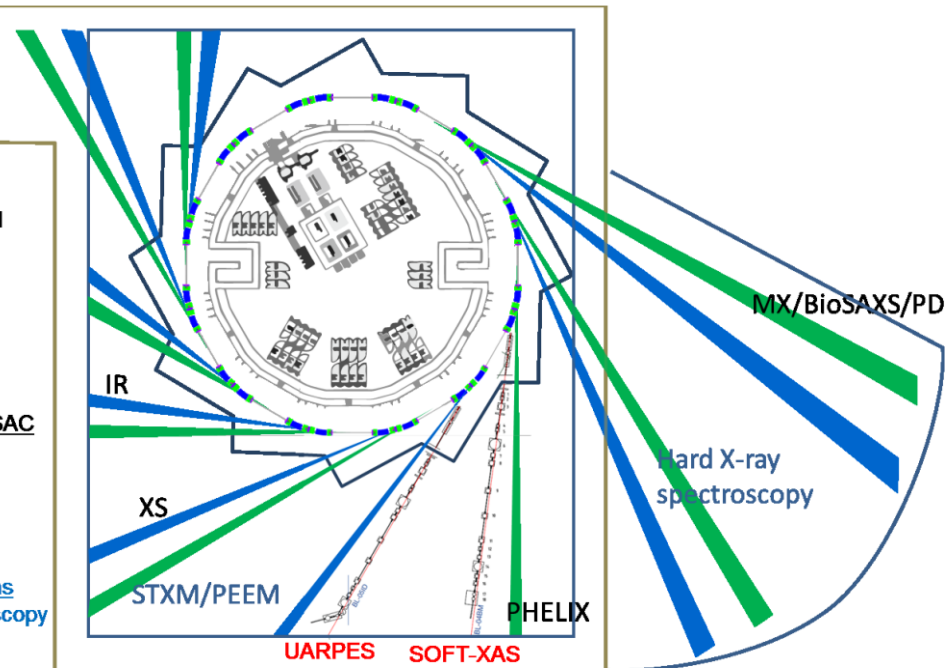


With building extension

Under construction
PEEM/XAS
UARPES

Recommended by SAC
MX/BioSAXS/PD
PHELIIX
XS
IR

Under considerations
Hard X-ray spectroscopy
STXM/PEEM



- **UARPES beamline commissioning**
- **Final installation of PEEM beamline and commissioning**
- **Users office preparation**
 - DUO system development in cooperation with ACK Cyfronet
 - Specification ready, first demo available
 - Organization
 - *Aquarium* office space
 - Budget/Man power estimation
 - Procedures review
- **Scientific Committee and Users committee assembly - actions taken by Polish Synchrotron Consortium**
- **First friendly users on September, 2016**
- **First regular users, January 2017**



Hello

Welcome to our new platform for researches who want to use the first Polish synchrotron radiation facility Solaris. In few easy steps you will be granted access to submit proposals for open calls available in the facility.



Are you new here?
[Read information about our facility](#)

First steps



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AFFILIATION](#)



[SUBMIT
PROPOSAL](#)



[USE
THE SYNCHROTRON](#)



You are here: [Profile and affiliations](#) → Add new affiliation



Add new affiliation

Country / NGI

-- Select --

Institution

Department

Departmental webpage
(OPTIONAL)

Supervisor name (OPTIONAL)

Supervisor e-mail (OPTIONAL)

e.g. john.smith@email.com

 SEND AFFILIATION

 CANCEL



Dashboard

Proposal

Profile and affiliations

Julia Szota-Pachowicz 

+ CREATE NEW PROPOSAL

DRAFTS



SUBMITTED PROPOSALS



ACCEPTED PROPOSALS



REJECTED PROPOSALS



STARRED ★





Please review your proposal carefully before submission. Remember: Once you have submitted the proposal you cannot edit it.

Status info

Created at	2016-04-02 11:52:32
Created by	Julia Szota-Pachowicz szota.jm@gmail.com
Proposal id:	12
Version Id	57

Campaign: Solaris DUI
Side: Customer
Status: Draft
Document type: Proposal form

REQUEST

szota.jm_12 

ACTIONS

CREATE THE GENERAL PART

CREATE THE EXPERIMENTAL,
SCIENTIFIC PART

- Specification ready based on extensive survey and revers engineering of PSI DUO
- **Implementation in progress**
 - **Engine from EGI user portal**
- **Umbrella integration**

- ✓ Solaris UO specification
 - › Users Dashboards
 - › Users
 - › Registration, Login
 - › Account settings
 - › Proposal
 - › Time allocation
 - Risk calculation algorithm
 - › Reviewers/Committees

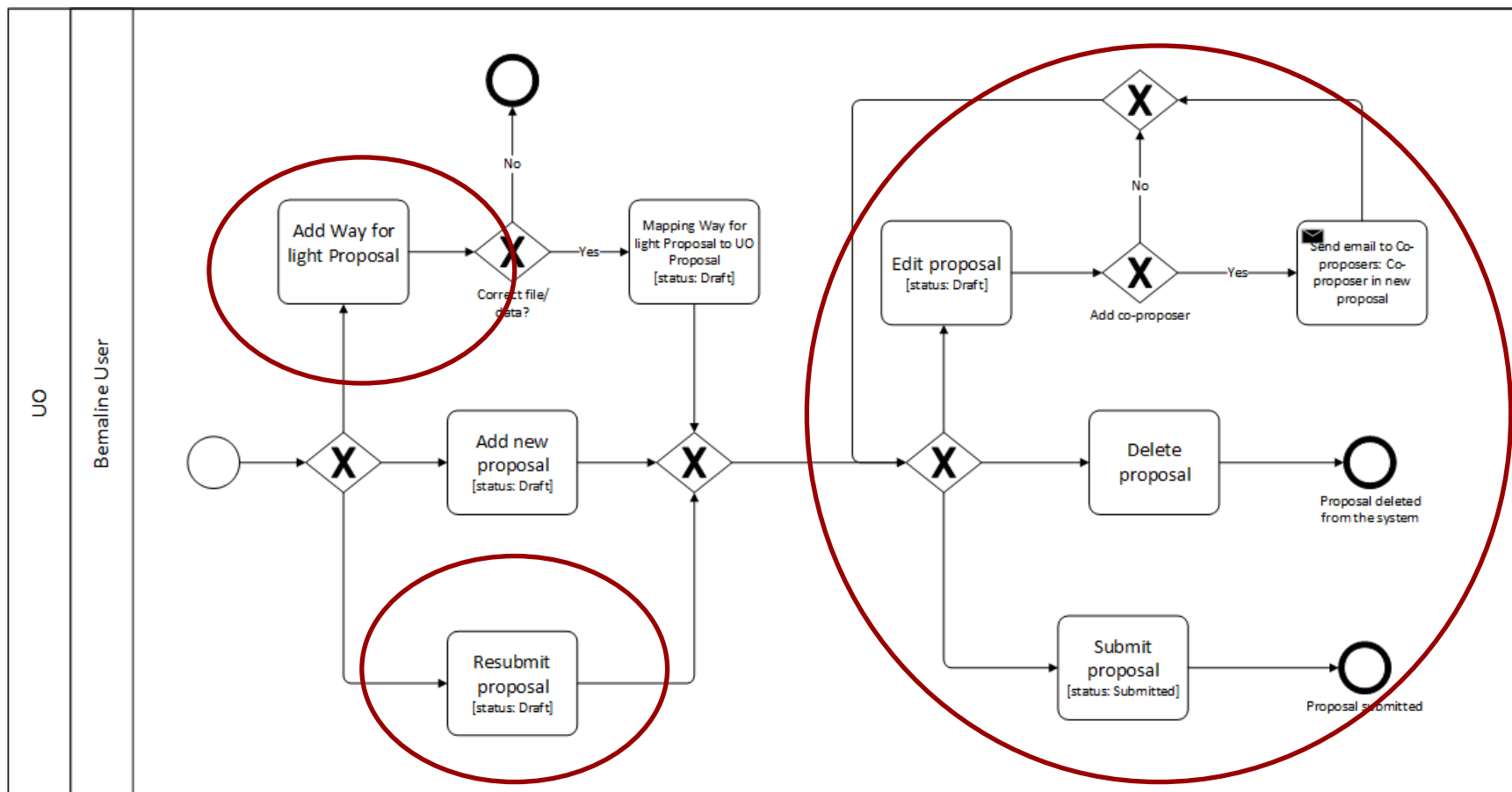
- Open call, Review meeting
- Experiment
- Safety Declaration, Safety Training
- User Declaration
- Publications
- Experimental Reports
- Feedbacks
- Communicator
- Administration
- Institutions database
- Notifications

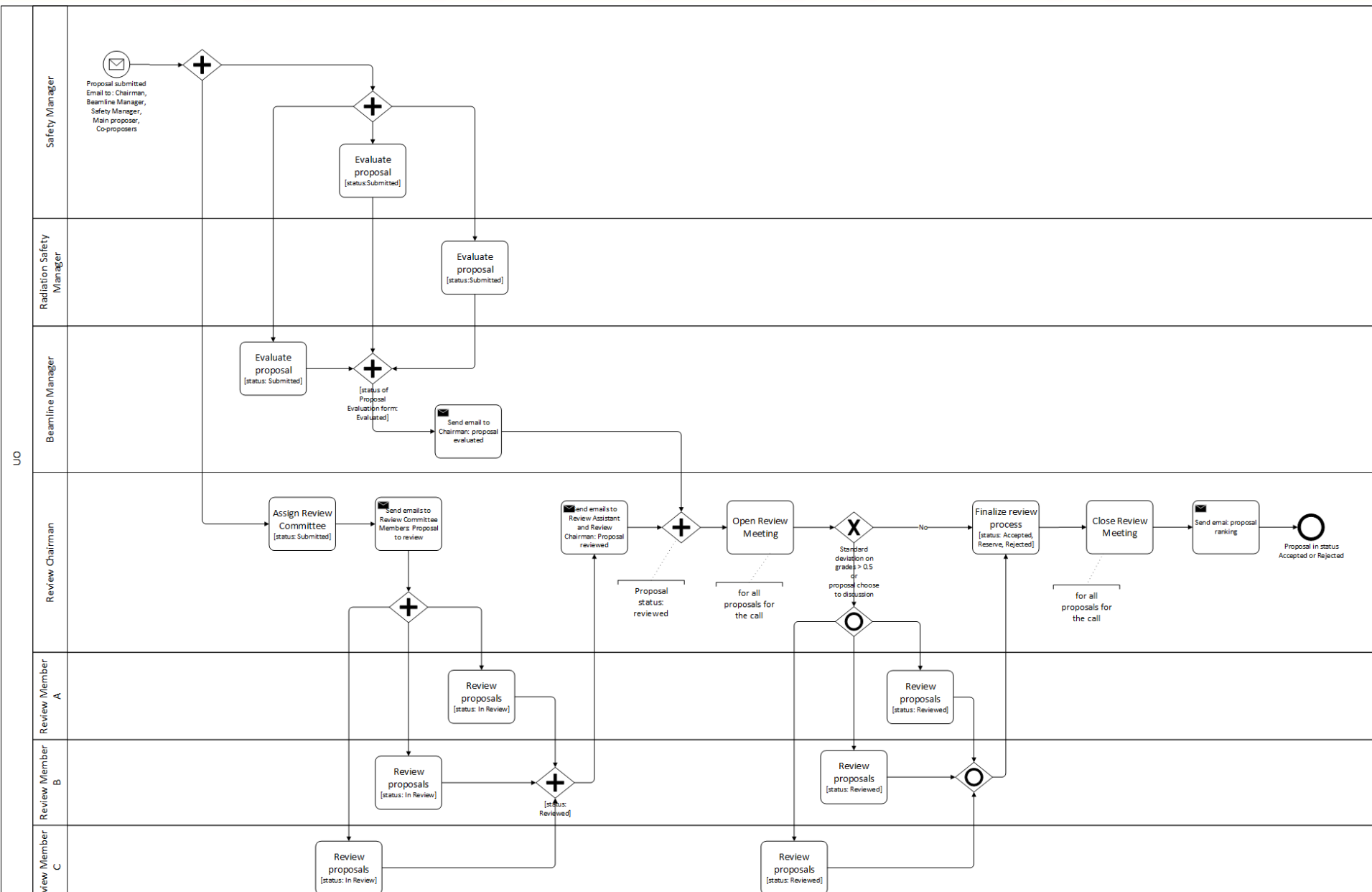
Workflows
configured with
YAML

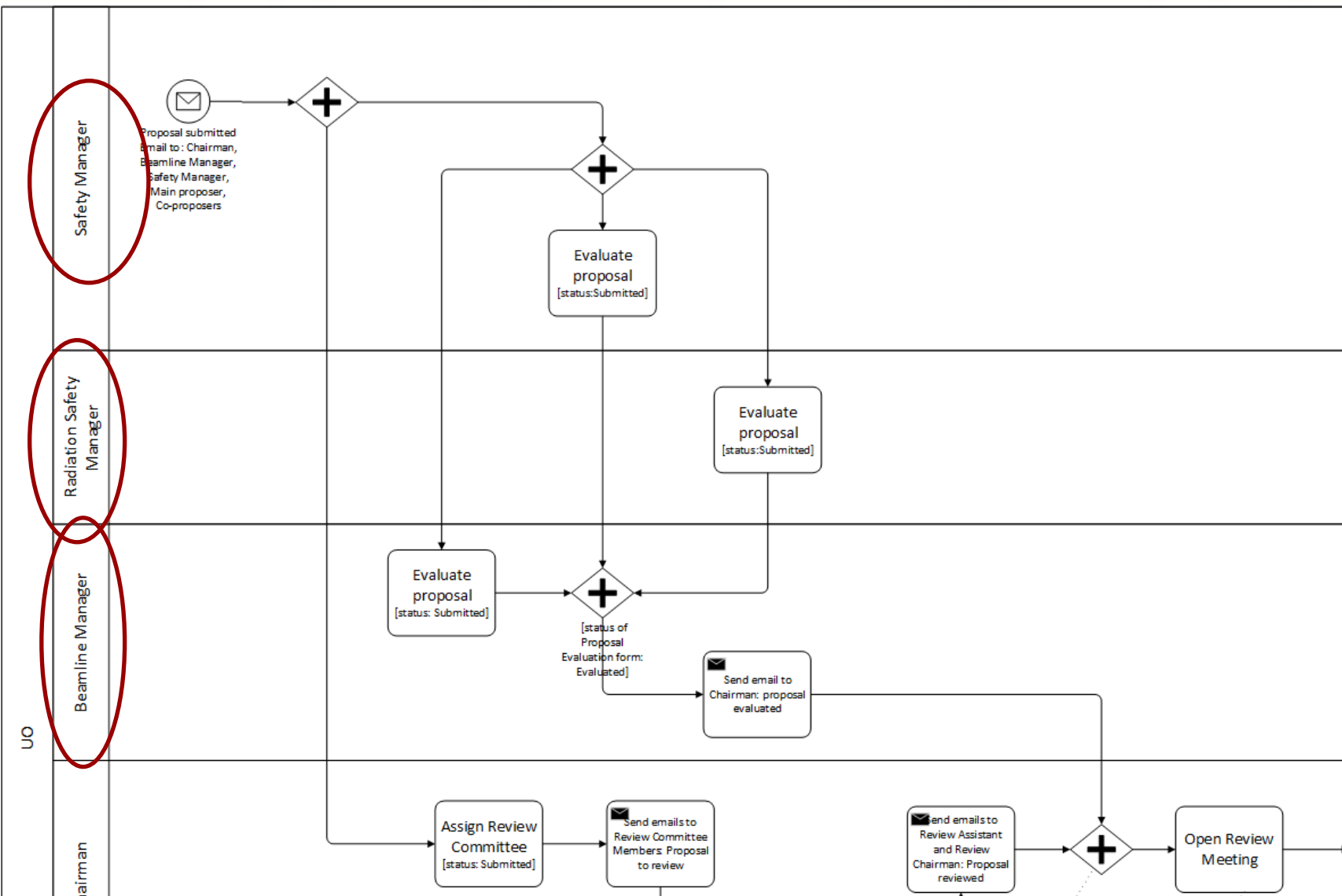
```
SendToBrokerPresent:  
  show_in_menu: false  
  Constraint: constraintsForSendToBrokerPresent  
  action_type: <?php echo Action::ACTION_CREATE_NEW_LEAF ?>  
  request_resources_source_type: <?php echo Action::RR_SOURCE_TYPE_FORM ?>  
  parents_alias: BASE  
  sv_alias: newRequest  
  copy_states_from_parent: true  
  redirect_to_this_version: true  
  copy_related_business_entities_from: BASE  
  Translation:  
    en:  
      name: Wyślij  
      success_message: Wniosek SLA został wysłany do Operatora Infrastruktury
```

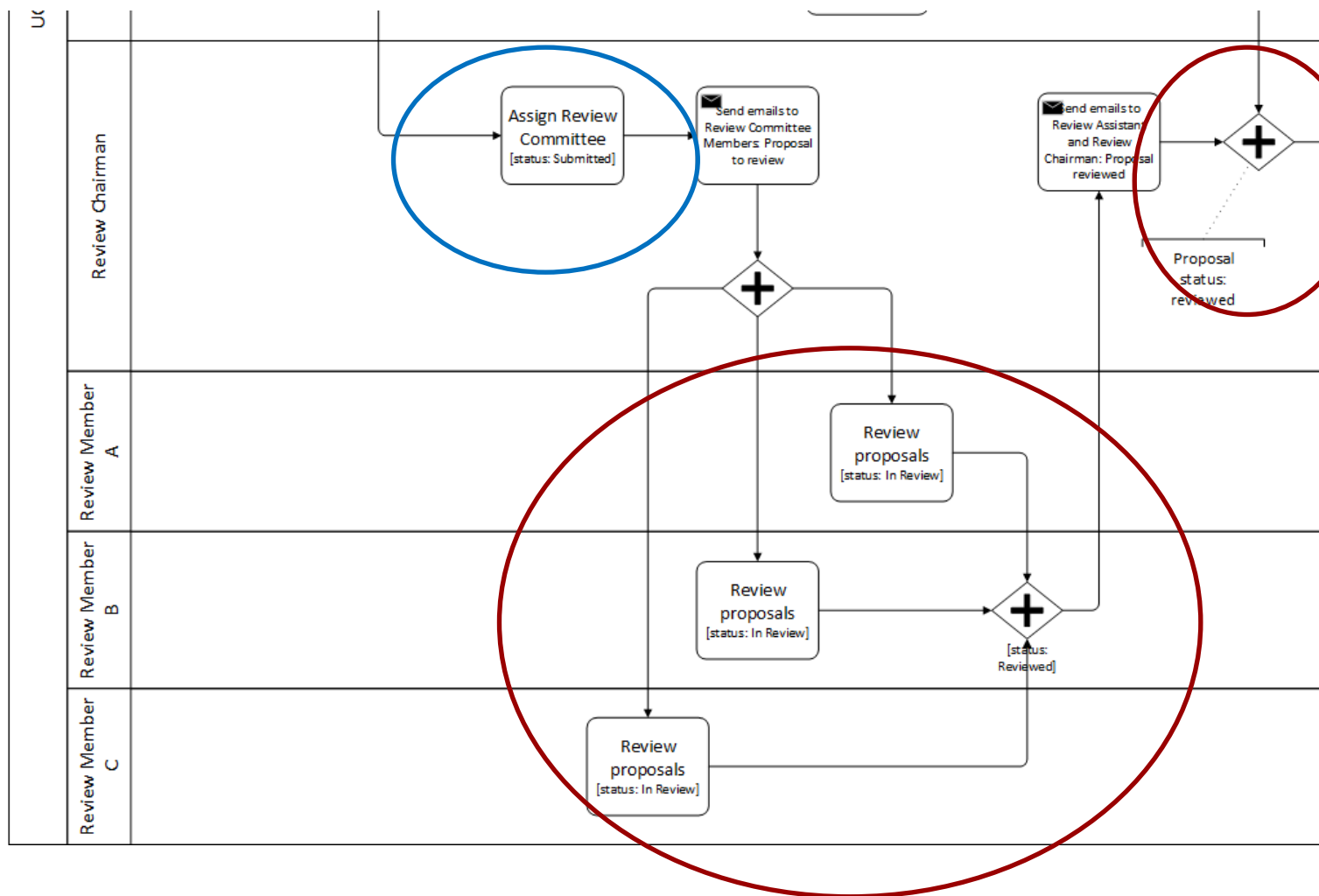
```
  Translation:  
    en:  
      name: Sumaryczny czas obliczeń  
      description: Limit sumarycznego czasu obliczeń.  
      descriptionP: Total computing time requested.  
  MetricsCategory: mc_htc_computing  
  poolable: true  
  comparison_type: <?php echo Metric::COMPARISON_TYPE_MORE ?>  
  aggregable: true  
  aggregation_type: <?php echo Metric::AGGREGATION_TYPE_PROPORTIONAL_HOURLY ?>  
  pool_max_per_request: true  
  usage_graph: true  
  <?php echo Metric::TYPE_INTEGER ?>  
  value: 100  
  new_request: true
```

Application parameters
configured with YAML

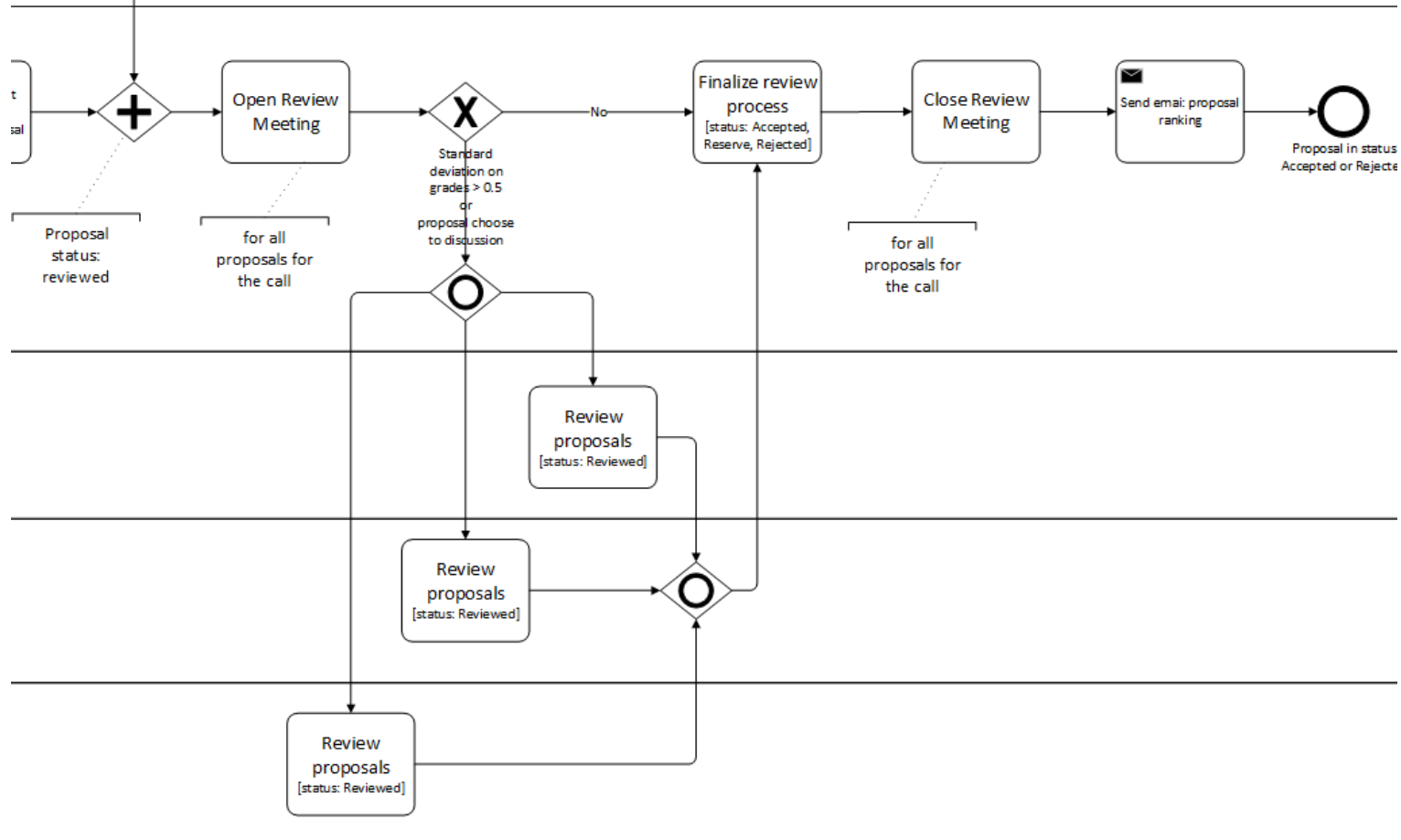








Based on ESRF evaluation process





1. Tytuł i opis eksperymentu:

2. Miejsce prowadzenia eksperymentu: ☐ linia badawcza ☐ laboratorium
chemiczne

3. Charakterystyka materiału badawczego:

Nazwa materiału / produktu:		Nr CAS:	
Masa lub objętość próbki badawczej [g lub cm ³]:		Planowana ilość próbek:	
Załącznik do ORE (format pdf):	☐ produkt chemiczny - karta charakterystyki (MSDS)		
	☐ materiał biologiczny - karta techniczna / charakterystyki (MSDS)		
	☐ materiał/ izotop promieniotwórczy - ...		

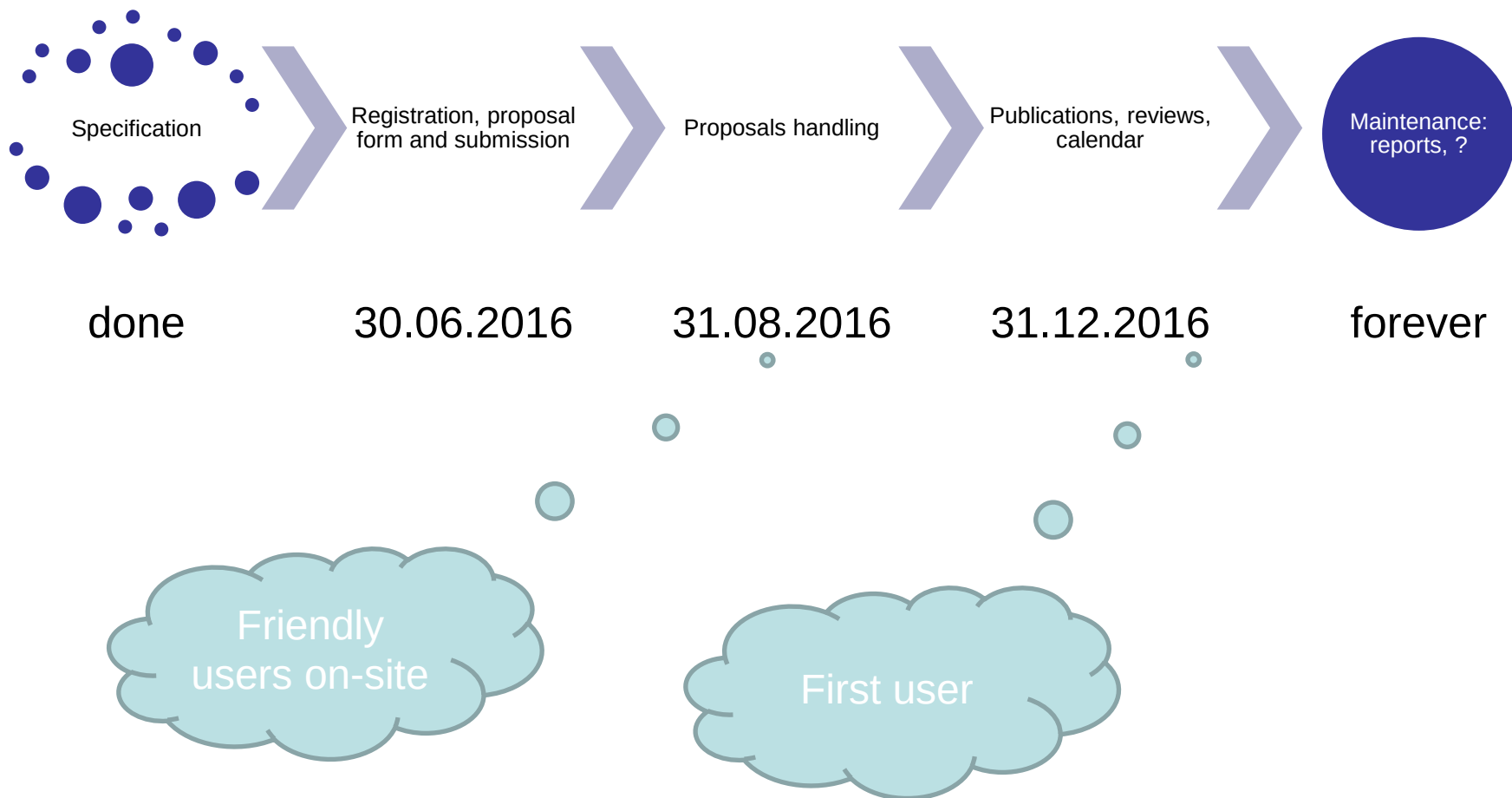
4. Ocena stanu skupienia materiału badawczego:

Stan skupienia materiału/produktu:	Ocena	Stan skupienia materiału/produktu:	Ocena
☐ Ciało stałe: niepyliste i niesublimujące	1	☐ Ciecz: nietalna	2
☐ Ciało stałe: pyliste i/lub sublimujące	2	☐ Ciecz: lotna w temp.	3
☐ Ciało stałe: uwalnia nanocząstki	3	☐ Gaz	3

5. Ocena zagrożenia stwarzanego przez materiał badawczy

UWAGA: Jeżeli próbka badawcza stwarza więcej niż jedno zagrożenie, wybierz wartość wyższą.

Rodzaj materiału/ produktu	Klasyfikacja / zagrożenie	Ocena	Klasyfikacja / zagrożenie	Ocena
☐ Produkt chemiczny	☐ Bez zagrożeń chemicznych	1	☐ Łatwopalny	2
	☐ Wybuchowy	3	☐ Żrący/ Korodujący	3
	☐ Utleniający	3	☐ Zagrożenia dla zdrowia	2



- Preparation of the facility for users
 - Getting experience from other facilities
- Digital Users Office
 - Strong collaboration with ACK Cyfronet AGH
 - Processes based among others on PSI DUO and ESRF procedures
 - Work in progress
 - Original engine based on PHP has been rewritten in Java



