

WP3 – NA2: Transnational Access Management and Harmonization

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RADNEXT Kick Off Meeting – 19-21 May 2021

<https://indico.cern.ch/event/1029314/>



WP3 – NA2

Efficiently awarding beam time to radiation effects users worldwide will be the cornerstone of the RADNEXT project, therefore a clear and effective approach to the Transnational Access is a key requisite for success.

WP03 fully devoted to the **management of the Transnational Access (TA)** activities:

- **application for beam time,**
- **coordination of the user selection and support,**
- **optimised management of the test related activities** by the facilities.

NA2 partners and scientists in charge

- ENEA (IT) – Salvatore Fiore (WP leader)
- Fraunhofer INT (DE) – Jochen Kuhnhenh (deputy WP leader)
- IROC (FR) – Dan Alexandrescu
- CERN – Federico Ravotti, Blerina Gkotse
- ESRF (FR) – Ennio Capria + external company
- MINES ParisTech, PSL University (FR) - Pierre Jouvelot

NA2 task breakdown:

Task 3.1
WP Coordination and
Communication

Task 3.2
User Support and Access
Requests Management
(ENEA, INT)

Task 3.3
RADNEXT Facilities
Database, Web Portal and
Recommender System
(CERN)

Task 3.4
Experiments' Data
Integration Model for the
RADNEXT Facilities
(ENEA)

Task 3.5
Facilities Access
Procedures Harmonization
(ESRF)

User Support and Access Requests Management

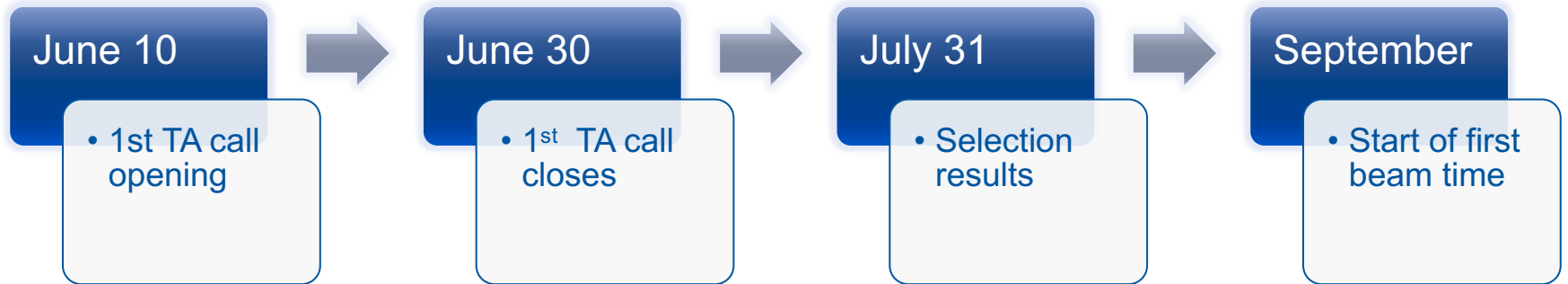


User Support and Access Requests Management

TA Proposal evaluation and beam awarding:

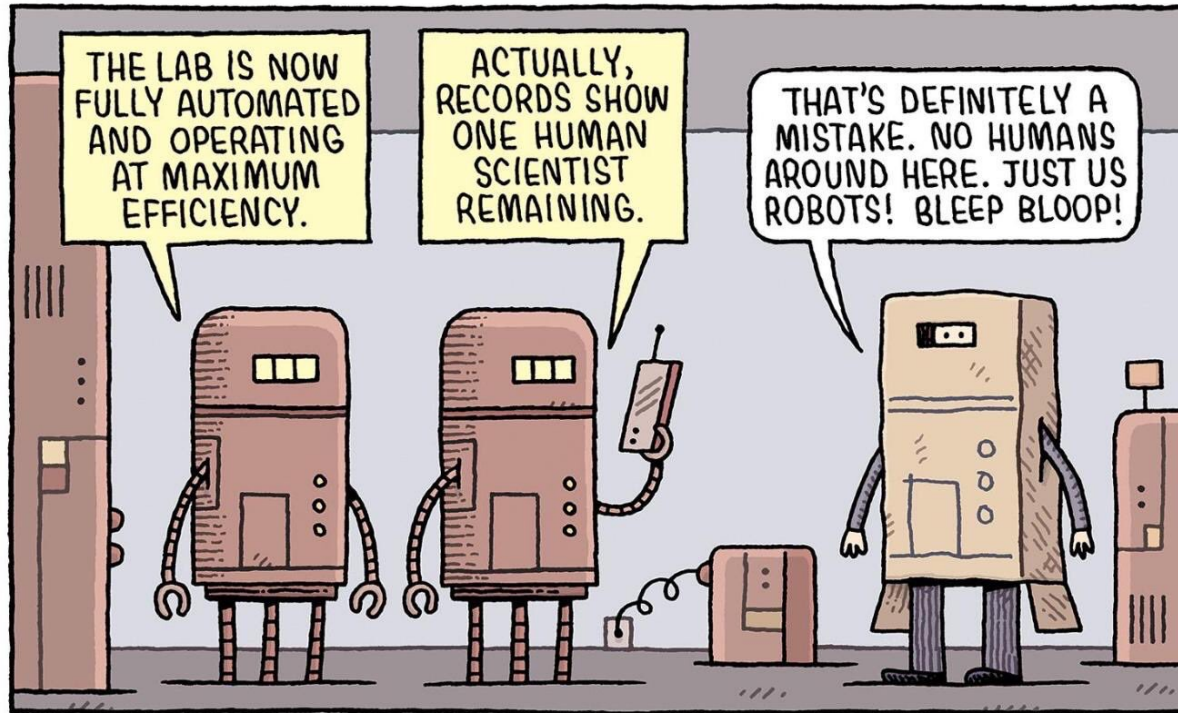
- User Selection Panel
 - composed by representatives of Scientific and Industrial areas
 - quarterly reviews and beam granting
 - short lead time
- TA requests portal
 - proposal submission and communication with applicants
 - proposal evaluation process handling
- Less-experienced users' support
 - User Support Expert team
 - counseling, optimisation, efficient use of beam time

Draft TA application schedule



Keep an eye on <https://radnext-network.web.cern.ch/main/> !

Facilities Database, Web Portal and Recommender System



<https://twitter.com/tomgauld/status/849187295685201920?s=20>

Facilities Database, Web Portal and Recommender System

Comprehensive database of RADNEXT facilities (and beyond...)

- standing on the shoulders of giants: <https://irradiation-facilities.web.cern.ch>
- integrate scientific, administrative, logistics info

WEB portal: database front-end

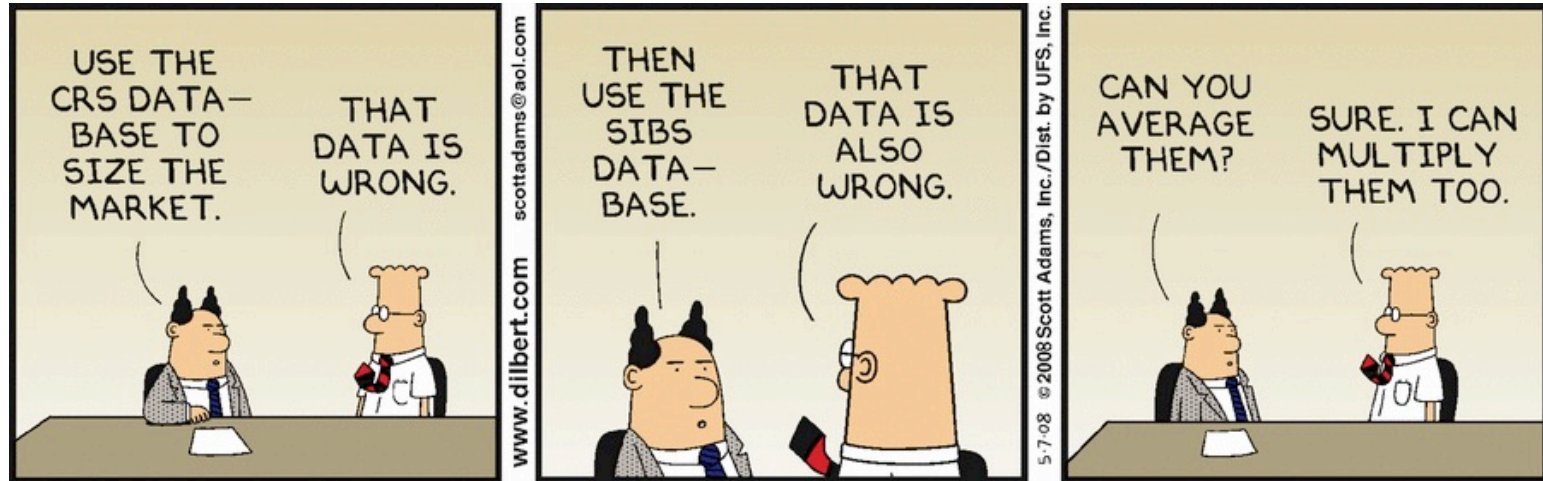
- facilities info display
- advanced filters for users

1 technical/summer student @ CERN

Towards AI-assisted proposal evaluation

- Natural Language Processing applied to proposals
- extract key info
- facility best match suggestion for applicants and evaluators

Experiments' Data Integration Model for RADNEXT Facilities



<https://dilbert.com/strip/2008-05-07>

Experiments' Data Integration Model for RADNEXT Facilities

Experimental activity planning and execution generates lots of data

- scientific “metadata”: tested devices, beam configurations, positions, dosimetry
- personal data, GDPR issues
- safety, RP, activated samples handling

Review of existing data management platforms

- custom-made, adapted commercial solutions, already in use within the consortium
- selection of the best available solution

Standardisation and interoperability of data

- definition of data model for user access to facilities
- dissemination of data model and data management platform

1 PostDoc @ ENEA

Facilities Access Procedures Harmonization



Facilities Access Procedures Harmonization

We are building a network of facilities to increase and optimise user access:

- collect use cases and best practices in user management (survey, interviews)
- compare results, derive successful strategies
- disseminate best practices aiming at harmonisation of user management

Safety training for users

- similar approach based on existing strategies and tools collection and dissemination

Optimise communication and interaction with users from industry

- exploit facilities more experienced with industry related activities
- identify specific needs and “soft skills”
- close contact with Industrial Advisory Panel and NA1 WP

Thanks for your attention!



<https://i.redd.it/5podl7guyyu61.jpg>