

Submitting proposals to research infrastructures: how to respect the excellence in avoiding the double evaluation?

Wolfgang Sandner

Director, Max-Born Institute Berlin Co-ordinator, LASERLAB-EUROPE



Future Access to European Research Infrastructures: Benefits to Academia, Industry and Society Lund, 27th October 2009

The problem:

- a) In order to get access, users must submit a proposal to the Research Infrastructures.
- b) In order to ensure excellence in research, the host Infrastructures apply highest standards in their internal evaluation of these proposals



there is – as a long standing tradition - an evaluation barrier between the users and the individual Infrastructures



Scientific excellence





Is this a problem?

Apparently not:

"All 32 synchrotron X-ray and neutron facilities responding to the questionnaire operate proposal programs for their user communities....

"The user community is generally happy with the proposal access mechanism and it is expected to remain the chief mechanism."

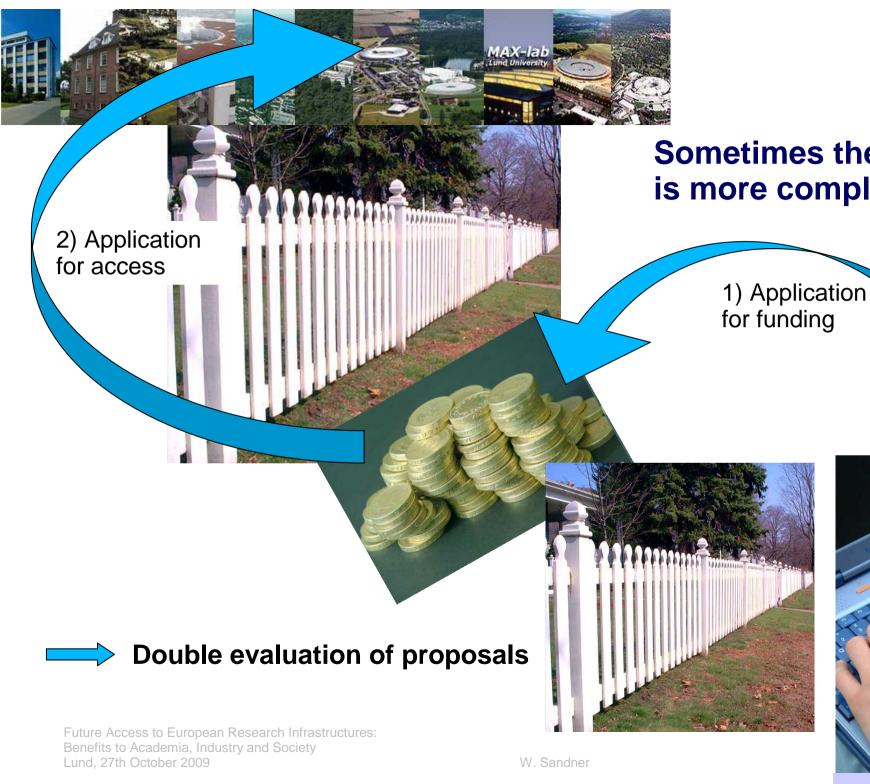
Scientific review by external committees is now clearly a universal, worldwide practice and is anticipated to continue

From:

Access To Major International X-Ray and Neutron Scattering Facilities

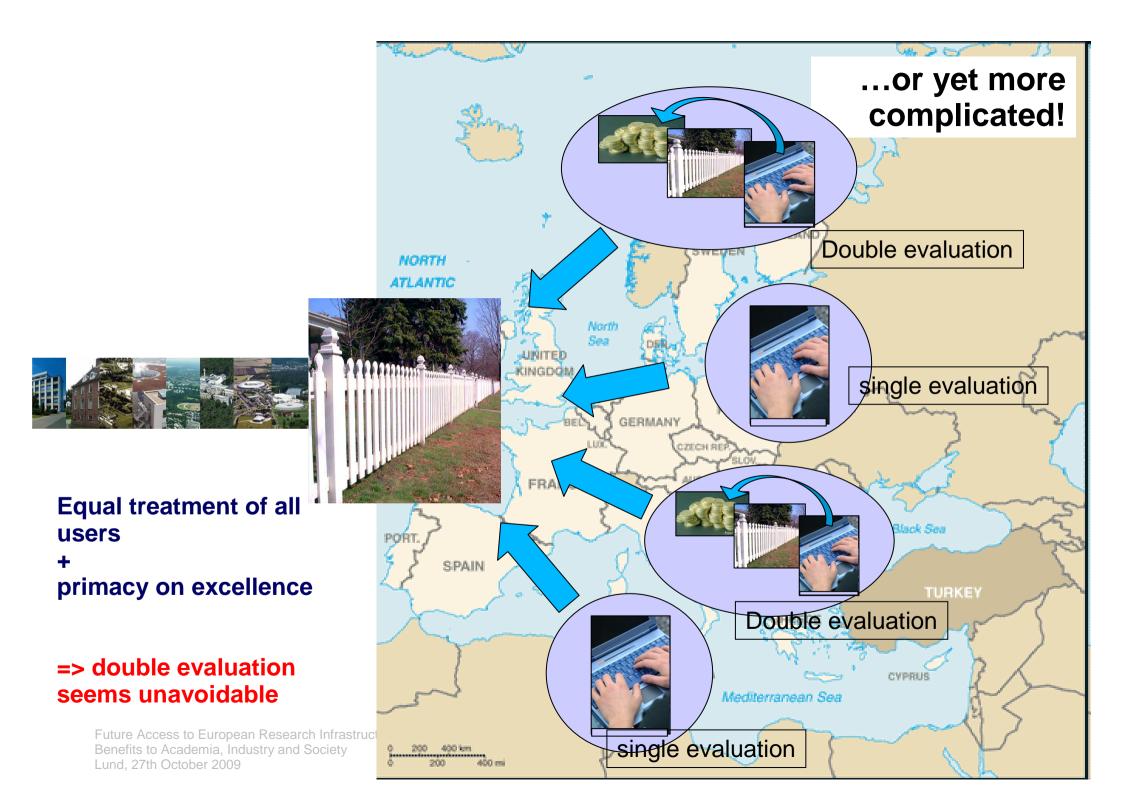
Committee on International Scientific Affairs The American Physical Society





Sometimes the situation is more complicated.....





A closer look on double evaluation

Pro:

equal treatment of all users of a facility
 => primacy on excellence

quality control is in the hands of the facility => enables competition

between facilitites

• "good proposals will always prevail" => no real problem for excellent

users

many (most?) users accept it => why change?

and finally:





Contra:

- pre-evaluated and funded projects my not get beam time at all (or not in time)
 => waste of funding resources, time
 and human capital
- evaluation standards may differ between funding agency and facility => not all users are treated equally
- evaluations are costly, reviewers are over-loaded => degradation of review processes
- evaluation standards my vary between access facilities => competition between facilities and/or equal access opportunities may be distorted.
- international user groups may want to form a collaboration, cross-nationally funded
 => unpredictable outcome



The only (?) alternative:

Single evaluation by an independent panel, recognized by both the host facilities and national funding agencies



The EUROHORCs and ESF Vision on a Globally Competitive ERA and their Road Map for Actions to Help Build It

Peer Review of researchers and proposals at the European level

- For the benchmarking of 'national' researchers and national projects, instruments such as **common international peer review** are of key importance.
- EUROHORCs Member Organisations will build on their own experiences and that of the ESF to establish European-level benchmarks for peer review processes, set up European peer review panels and develop shared European-level peer review resources such as quality controlled shared databases of reviewers.
- Concept of a "lead agency" if several funding agencies are involved



Common international peer review project funding/+ access Mediterranean Sea



Pro's and Con's revisited:

All Contras removed => o.k.

What about the Pro's?

- previously: equal treatment of all users of a facility => primacy on excellence (still o.k.)
- **previously:** quality control is in the hands of the facility => enables competition

=>

between facilitites

now: scientific quality (and hence, competition) is no longer a matter of the "entrance gate" but of the quality of service!

strict discipline central evaluation procedure!

this is even a better situation but requires in common standards of the



Can it work?





Access implementation in LASERLAB-EUROPE



Access Policy



LASERLAB-EUROPE has put special emphasis on the development of a *unified Access organisation*.

It is specified in the **Access Policy**, which is part of the **Consortium Agreement**.

Main features:

- a coordinated and flexible implementation of the Access opportunities provided to the European User community, and
- the co-ordinated selection of Access proposals by a joint and external panel







Access providers

http://www.laserlab-europe.eu/transnational-access/access-facilities



Access policy part 1: "Coordinated and flexible implementation"

- EU Contract: There are only global objectives for the whole network, not for the individual RI's
- The distribution of Access and funds (!) between individual RI's is dynamically adjusted according to demand and offers.
- 3) Hence, Access may differ substantially from the proposal. The global Access performance of the network matches or exceeds the Contract goals
- 4) Dynamic implementation requires
 - Mutual agreement and trust between all participating RI's
 - Close monitoring and quality control by an Access Board
 - Co-operative spirit in setting up the dynamic implementation plans



Example: 2007 Access



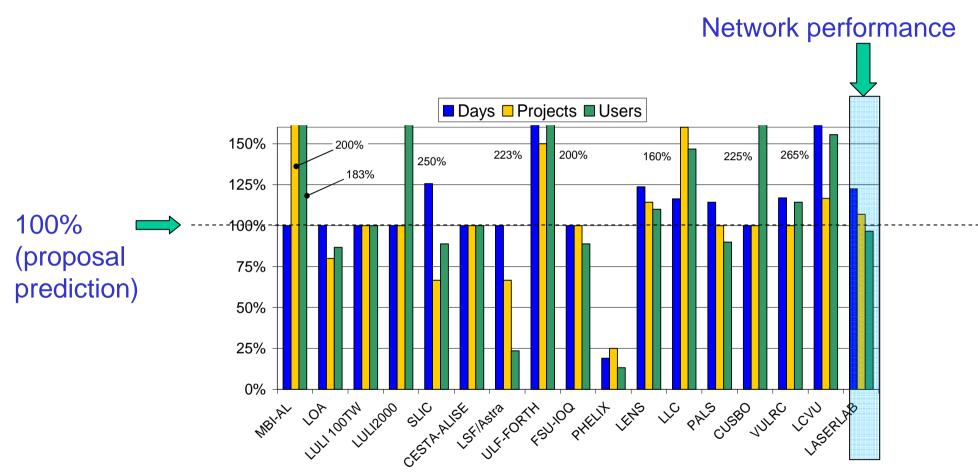


Figure 1 : Transnational Access provided by LASERLAB partners in 2007 compared to the 4th Implementation Plan



Proposal selection and processing

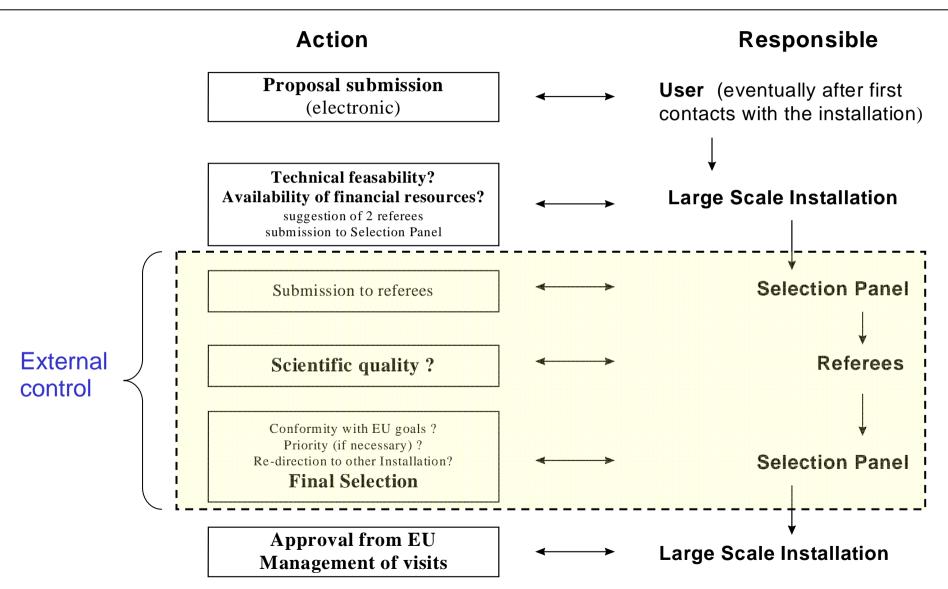


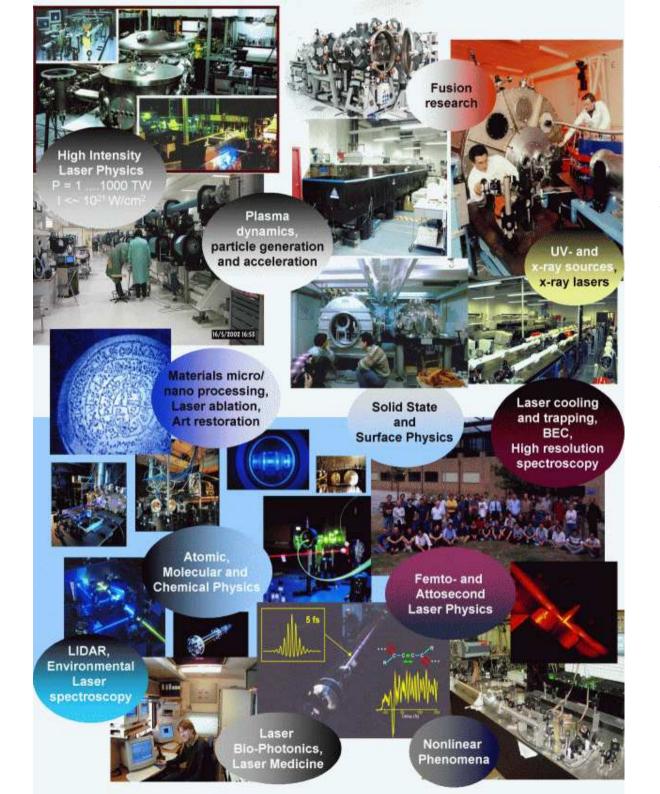
- joint and common access offer by all participating RIs
- fully electronic proposal processing
 => proposals accepted at any time; return time ~ 4 weeks
- Independent external selection panel
- large pool of referees (> 100), jointly selected by all RIs
- involvement of user representatives & Access Board quality control
- re-direction of users between facilities





Workflow





Joint Call for Proposals: www.laserlab-europe.net

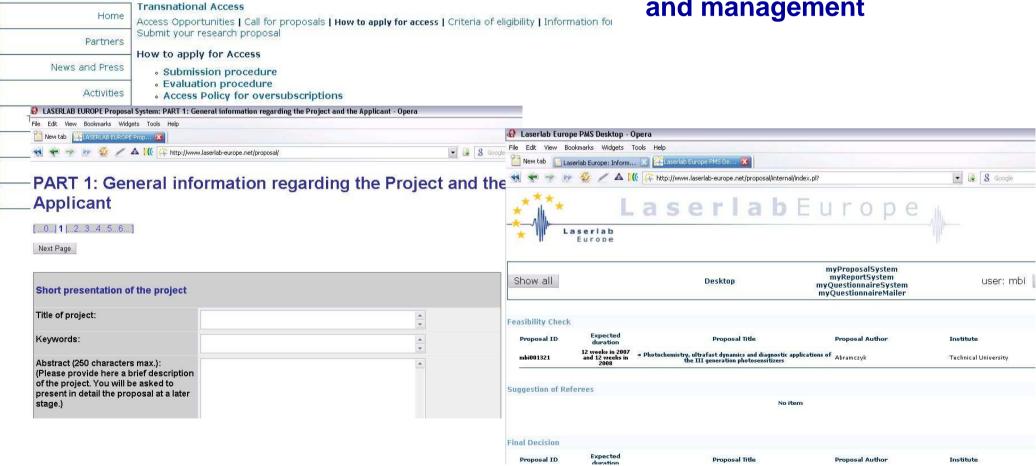








Online proposal submission and management







- Online Access Reporting Database
- Automatic Update of Access Publications List



Future Access to European Research Infrastructures: Benefits to Academia, Industry and Society Lund, 27th October 2009

Access quality management:





User questionnaires linked to individual projects





Proposal Details

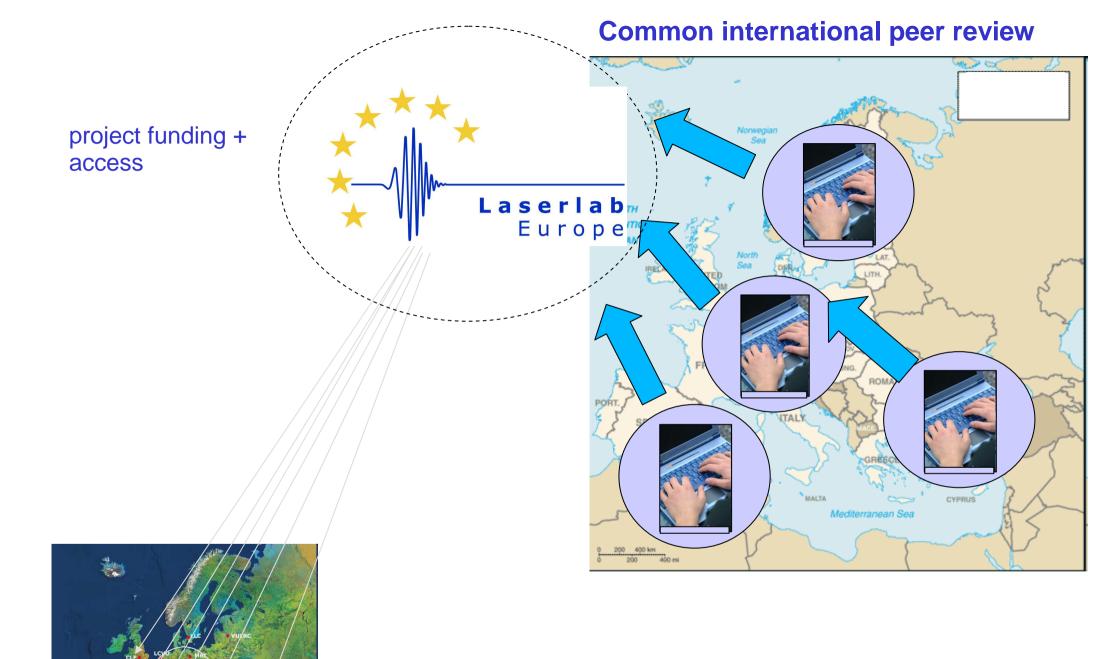
[Information sent to host facility and Laserlab Europe]

EC contract no and acronym	RII3-CT-2003-506350 (LASERLAB-EUROPE)
Host infrastructure acronym	MBI
User project nº	mbi000409
User project title	Analysis of thermo-mechanical properties of high- power diode lasers
Discipline(s)	Engineering Sciences
User group leader: family name	Kozlowska
First name(s)	Anna

Access publicity

[Information sent to host facility and Laserlab Europe]

Where did you first find out about the possibilities of access supported through the contract? (you may t more than 1 possibility)





FP6 and FP7 experience



Joint & external proposal evaluation and selection works to the satisfaction of the network and users.

It allows for

- central and uniform external quality control and best practices => element of *RI co-operation and trust*
- dynamic access distribution between host infrastructures
 element of *RI competition*, based on services offered
- efficient, transparent and competent electronic review process with a single gateway => open access
 - avoidance of double review even if local review is formally

FP6 and FP7 experience



Joint & external proposal evaluation:

What it does not (yet) do:

- include both EU- funded and nationally funded (or third party)
 Access => equal treatment of all users?
 - include funding agencies, apart from host RIs => double evaluation still possible
- provide a common evaluation standard for and gateway to all European laser facilities => more steps to be taken



Conclusion:

Double evaluation in Access for funded projects

- occurs, even if not uniformly seen as a *surmountable problem* by the scientific community (yet)
- closer analysis of Pro's and Con's leads to the proposition of alternative solutions, e.g. EUROHORC's and ESF's "lead agency"
- Any new solution will require a change in spirit among Access providers: strong co-operation in evaluation while maintaining scientific excellence through competition in services
- First (still incomplete) model solutions have been successfully imperented

