



Gutachterkritiken - häufige Fehler in der Antragstellung

Online-Seminar | 23. Juni 2022

Dr. ALEXANDROS THEODORIDIS

Dr. Frank Dreger

Dr. ROLF STRATMANN

www.nks-bio-umw.de





ESRs & Überblick über Begutachtungsprozess

Antragstellende erhalten ein Feedback der Gutachter*innen, den sog. *Evaluation Summary Report* (ESR):

- Bei Kurzanträgen (1. Stufe im zweistufige Verfahren): nur abgelehnte Anträge
- Vollanträge: alle

Zusätzlich gibt es zu jedem Topic nach der ersten Stufe ein generalised feedback für erfolgreiche Antragstellende (F&T Portal)



Standard evaluation process

Receipt of proposals

Individual evaluation

Consensus group

Panel review

Finalisation

Admissibility/eligibility check

Allocation of proposals to evaluators

Experts assess proposals **individually**.

Minimum of three experts per proposal (but often more than three).

All individual experts discuss together to agree on a **common position**, including comments and scores for each proposal.

The panel of experts reach an **agreement** on the scores and comments for all proposals within a call, checking **consistency** across the evaluations.

If necessary, resolve cases where evaluators were unable to agree.

Rank the proposals with the same score

The Commission/Agency reviews the results of the experts' evaluation and puts together the **final** ranking list.





Panel Consensus Individual Receipt of **Finalisation** review group proposals evaluation

Admissibility/eligibility check

All individual experts Experts assess discuss together to agree proposals individually.

Allocation of proposals to evaluat

Achtung: ,Experts' sind Fachleute, aber nicht notwendigerweise Experten für exakt die in Ihrem Antrag gewählte wissenschaftliche Ausrichtung! Zudem sind bei interdisziplinären Topics auch verschiedene Disziplinen im Gutachterpanel vertreten!

The panel of experts reach an agreement on the scores and comments for all proposals within a call, checking consistency across the evaluations.

if necessary, resolve cases where evaluators were unable to agree.

Rank the proposals with the same score

The Commission/Agency reviews the results of the experts' evaluation and puts together the **final** ranking list.



Admissibility, eligibility checks and additional requirements

Admissibility is checked by EU staff.

- Applications must be complete and contain all parts and mandatory annexes and supporting documents.
- Applications must be readable, accessible and printable.
- Applications must include a **plan for the exploitation and dissemination of results including communication activities** (n/a for applications at the first stage of two-stage procedures or unless otherwise provided in the specific call conditions).
- Specific page limits per type of action normally apply (specified in the topic conditions and controlled by IT tool).

Eligibility is checked by EU staff. If you spot an issue, please inform the EU staff.

- Eligible activities are the ones described in the call conditions.
- Minimum number of partners as set out in the call conditions (at least one independent legal entity established in a MS, and, at least two other independent legal entities established either in a MS or AC).
- For calls with deadlines in 2022 and onwards participants that are public bodies, research organisations or higher education
 establishments from Members States and Associated countries must have a gender equality plan in place.
- Other criteria may apply on a call-by-call basis as set out in the call conditions. In few cases, the call conditions in the topic can modify the interpretation of criteria.



- Read the proposal and evaluate it against the evaluation criteria, without discussing it with anybody else and as submitted and not on its potential if certain changes were to be made.
- Complete an Individual Evaluation Report (IER).
 - Evaluate each proposal as submitted and not on its potential if certain changes were to be made.
 - If you identify shortcomings (other than minor ones and obvious clerical errors), reflect those in a lower score for the relevant criterion. Proposals with significant weaknesses that prevent the project from achieving its objectives or with resources being seriously over-estimated must not receive above- threshold scores.
 - Provide comments and scores for all evaluation criteria (scores must match comments).
 - Explain shortcomings, but do not make recommendations (e.g. no additional partners, work packages, resource cuts).
 - Sign and submit the form in the electronic system.





- The rapporteur is responsible for drafting the consensus report (CR). The rapporteur includes consensus comments and scores and in some cases does not take part in the discussion.
- The quality of the CR is of utmost importance. It will be the basis for the evaluation summary report (ESR) sent to applicants together with the evaluation result letters. It often remains unchanged at the panel stage, so in most of the cases ESRs are identical to CRs.
- The aim of the CR is to give:
 - A clear assessment of the proposal based on its merit, with justification.
 - o Clear feedback on the proposal's **weaknesses and strengths**, of an adequate length, and in an appropriate tone.
 - Explain shortcomings, but not to make recommendations.

Avoid:

- 1. Comments not related to the criterion in question.
- 2. Comments too long, or too short and inappropriate language.
- 3. Categorical statements that have not been properly verified.
- 4. Scores that don't match the comments.
- 5. Marking down a proposal for the same critical aspect under two different criteria.

Remember: Applicants will read your comments and, based on them, can challenge the evaluation through the evaluation review procedures.





Three evaluation criteria

'Excellence', 'Impact' and 'Quality and efficiency of the implementation'.

(Only one evaluation criterion for ERC - Excellence)

- Evaluation criteria are adapted to each type of action, as specified in the WP
- Each criterion includes the 'aspects to be taken into account'. The same aspect is not included in different criteria, so it is not assessed twice.
- Open Science practices are assessed as part of the scientific methodology in the excellence criterion.
- Qualität des Konsortiums wird unter ,Implementation' bewertet





Evaluation criteria (RIAs and IAs)

Research and innovation action (RIA) Activities to establish new knowledge or to explore the feasibility of a new or improved technology, product, process, service or solution.

This may include basic and applied research, technology development and integration, testing, demonstration and validation of a small-scale prototype in a laboratory or simulated environment.



Activities to produce plans and arrangements or designs for new, altered or improved products, processes or services.

These activities may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

EXCELLENCE

- Clarity and pertinence of the project's objectives and the extent to which the proposed work is ambitious, and goes beyond the state-of-the-art.
- ✓ Soundness of the proposed **methodology**, including the underlying concepts, models, assumptions, interdisciplinary approaches, appropriate consideration of the **gender dimension** in research and innovation content, and the quality of **open science practices** including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.

IMPACT

- Credibility of the **pathways** to achieve the expected **outcomes and impacts** specified in the work programme, and the likely scale and significance of the contributions due to the project.
- ✓ Suitability and quality of the measures to maximize expected outcomes and impacts, as set out in the dissemination and exploitation plan, including communication activities

QUALITY AND EFFICIENCY OF THE IMPLEMENTATION

- Quality and effectiveness of the work plan, assessment of risks, and appropriateness of the effort assigned to work packages, and the resources overall.
- Capacity and role of each

 participant, and extent to which
 the consortium as a whole brings
 together the necessary expertise.





Evaluation criteria (CSAs)

Coordination and support actions (CSA) Activities that contribute to the objectives of Horizon Europe. This excludes R&I activities, except those carried out under the 'Widening participation and spreading excellence' component of the programme (part of 'Widening participation and strengthening the European Research Area').

Also eligible are bottom-up coordination actions which promote cooperation between legal entities from Member States and Associated Countries to strengthen the European Research Area, and which receive no EU co-funding for research activities.

EXCELLENCE

- Clarity and pertinence of the project's objectives.
- Quality of the proposed coordination and/or support measures, including soundness of methodology.

IMPACT

- Credibility of the pathways to achieve the expected outcomes and impacts specified in the work programme, and the likely scale and significance of the contributions due to the project.
- ✓ Suitability and quality of the measures to maximize expected outcomes and impacts, as set out in the dissemination and exploitation plan, including communication activities.

QUALITY AND EFFICIENCY OF THE IMPLEMENTATION

- ✓ Quality and effectiveness of the work plan, assessment of risks, and appropriateness of the effort assigned to work packages, and the resources overall.
- ✓ Capacity and role of each **participant**, and extent to which the **consortium** as a whole brings together the necessary expertise.





Proposal scoring, thresholds and weighting

- Evaluation scores are awarded for the criteria, and not for the different aspects in each criterion.
- You provide a score in the range from 0-5 to each criterion based on your comments. Maximum score for a proposal is 15.
 - The whole range of scores should be used. Use steps of 0.5.
 - Scores must pass the individual threshold AND the overall threshold if a proposal is to be considered for funding within the limits of the available call budget.
- Thresholds apply to individual criteria and to the total score. The default threshold for individual criteria is 3 and the default overall threshold is 10 (unless specified otherwise in the WP).

For the first stage of a two-stage procedure, you only evaluate the criteria Excellence and Impact. The threshold for both individual criteria is 4.

The level of **overall threshold** will be set at a level that ensures the total requested budget of proposals admitted to stage 2 is as close as possible to three times the available budget, and not less than two and a half times the available budget.

- Weighting: scores are normally NOT weighted. Weighting is used for some types of actions and only for the ranking (not to determine if the proposal passed the thresholds).
- Specific calls or topics may have different rules regarding thresholds and weighting.
- For Innovation actions, the criterion Impact is given a weight of 1.5 to determine the ranking.







The proposal **fails to address the criterion** or cannot be assessed due to missing or incomplete information.



Poor. The criterion is inadequately addressed, or there are serious inherent weaknesses.



Fair. The proposal broadly addresses the criterion, but there are significant weaknesses.



Good. The proposal addresses the criterion well, but a number of shortcomings are present.



Very Good. The proposal addresses the criterion very well, but a small number of shortcomings are present.



Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.







Hilfreiche Dokumente

Kommentiertes Proposal Template NKS B&U: https://www.nks-bio-umw.de/service/informationsmaterial

Standard Proposal Templates (unter ,Templates & forms' → ,Application forms'), Evaluierungs-Vorlagen (unter ,Templates & forms' → ,Evaluation forms'): https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents;programCode=HORIZON

General Annexes: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-13-general-annexes_horizon-2021-2022_en.pdf

Briefing für Gutachter*innen: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/experts/standard-briefing-slides-for-experts he en.pdf





Evaluierungskriterien Excellence

- Clarity and pertinence of the project's objectives, and the extent to which the proposed work is ambitious, and goes beyond the state-of-the-art.
- Soundness of the proposed methodology, including the underlying concepts, models, assumptions, inter-disciplinary approaches, appropriate consideration of the gender dimension in research and innovation content, and the quality of open science practices including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.
- → <u>Denken Sie daran, alle im Proposal-Template geforderten Informationen zu liefern!</u>



Evaluating the excellence criterion (1/2)

Assess the project's **objectives**:

- Are they clear and pertinent to the topic?
- Are they measurable and verifiable?
- Are they realistically achievable?
- Is the proposed work ambitious and goes beyond the state-of-the-art?
- Does the proposal include ground-breaking R&I, novel concepts and approaches, new products, services or business and organisational models?
- Is the R&I maturity of the proposed work in line with the topic description?

Please bear in mind that advances beyond the state of the art must be interpreted in the light of the positioning of the project. For example, expectations will not be the same for RIAs at lower TRL, compared with Innovation Actions at high TRLs.

Following questions are adapted to RIA and IA type of actions (ToA). Similar questions will be asked for other ToAs, in line with the instructions in the specific applications forms.







Kritikpunkte aus ESRs

- Objectives sind nicht ausreichend, um Scope voll abzudecken oder um expected outcomes zu bedienen bzw. Objectives fokussieren nur auf Teilaspekte des Topics
- Objectives sind nicht SMART: zu unspezifisch/unklar; nicht messbar/verifizierbar; überoder unterambitioniert; ohne Angabe eines Zeithorizonts
- Analyse / Darstellung des state of the art und Ambition sind unklar und nicht ausreichend detailliert formuliert
- Progress beyond state of the art / Ambition nicht überzeugend, da keine signifikante Generierung von neuem Wissen / Erforschung neuartiger Technologien oder zur Demonstration / Erforschung der Durchführbarkeit neuartiger Ansätze / Technologien / Modelle





Kritikpunkte aus ESRs

- Innovationspotenzial zu gering / nicht überzeugend
- Reifegrad der vorgeschlagenen Aktivitäten und der Endpunkte nicht ausreichend bzw. nicht zu Anforderungen aus Topic oder dem Instrument passend (zu gering /zu hoch)





Beispiele aus ESRs, Excellence-Kriterien 1/2

- The proposal does not sufficiently develop the objectives and does not provide details related to measurability, attainability and timetable (performance indicators) to achieve these objectives. This a significant weakness
- The objectives only partly address the scope of the work program. Some of the topics from the work program are insufficiently covered
- The state of the art analysis and ambition of the proposal are unclear and not articulated in sufficient detail. Ambition is not convincing since this does not lead to significant generation of new knowledge or to exploring the feasibility of a sufficient number of novel technologies. Furthermore, innovation potential is not convincing. This is a significant weakness.



Evaluating the excellence criterion (2/2)

Following questions are adapted to RIA and IA type of actions (ToA). Similar questions will be asked for other ToAs, in line with the instructions in the specific applications forms.

Assess the **scientific methodology**:

- Is the scientific methodology (i.e. the **concepts, models and assumptions** that underpin the work) **clear and sound**?
- Is it clear how expertise and methods from different disciplines will be brought together and integrated in pursuit of the objectives? If applicants justify that an inter-disciplinary approach is unnecessary, is it credible?
- Has the gender dimension in research and innovation content been properly taken into account?
- Are open science practices implemented as an integral part of the proposed methodology?
- Is the research data management properly addressed?
- For topics indicating the need for the **integration of social sciences and humanities**, is the role of these disciplines properly addressed?







Kritikpunkte aus ESRs

- Zugrundeliegendes Konzept unklar, mangelhaft ausgearbeitet oder erläutert
- Zugrundeliegende Annahmen und Technologien nicht ausreichend erläutert
- Nur generische Methoden, keine ausgearbeitete Methodik bzw. unklare Gesamtstrategie
- Methoden zur Erreichung der gesetzten Ziele bzw. zur Schaffung eines Mehr- oder Neuwerts ungeeignet bzw. nicht ausreichend
- keine Verbindung zwischen Objectives, Konzept und Methoden
- Arbeiten passen nicht zusammen bzw. werden nicht gut miteinander verknüpft
- Konkrete Vorgaben aus Topic zur Methode / Herangehensweise missachtet





Kritikpunkte aus ESRs

- Interdisziplinarität nicht (überzeugend) umgesetzt bzw. nicht erläutert; nötige Expertisen und Disziplinen fehlen; keine echte Zusammenarbeit / Co-Design / Co-Creation zwischen Disziplinen
- Zielgruppen schlecht gewählt oder ihre Relevanz nicht ausreichend erläutert
- Keine Ausreichende Einbindung relevanter Zielgruppen
- Keine Verbindung zu bzw. Synergie / Komplementarität mit anderen Forschungs- und Innovationsprojekten / Initiativen; Duplikation von Arbeit, da existierendes Wissen nicht genutzt wird
- Gender Dimension in R&I Inhalten nicht erläutert bzw. nicht adressiert; keine entsprechenden Aktivitäten / Expertisen





Beispiele aus ESRs, Excellence-Kriterien 2/2

- The methodological approach of the proposal is not sufficiently sound. The following five shortcomings have been identified: i) the proposal does not sufficiently address underlying concepts, assumptions and technologies; ii)...
- Interdisciplinarity is not explicitly addressed and the proposal does not adequately integrate different perspectives/disciplines (for example, social sciences and humanities). This is a shortcoming.
- Open science practices, data management, citizen inputs and the gender dimension are not discussed. These are significant weaknesses.
- The proposal does not adequately consider the 'multi-actor approach'.





Evaluierungskriterien Impact

Credibility of the pathways to achieve the expected outcomes and impacts specified
in the work programme, and the likely scale and significance of the contributions due to
the project.





Evaluierungskriterien Impact

- Credibility of the pathways to achieve the expected outcomes and impacts specified
 in the work programme, and the likely scale and significance of the contributions due to
 the project.
- Suitability and quality of the measures to maximize expected outcomes and impacts, as set out in the dissemination and exploitation plan, including communication activities.



Evaluating the impact criterion (1/2)

Following questions are adapted to RIA and IA type of actions (ToA). Similar questions will be asked for other ToAs, in line with the instructions in the specific applications forms.

Assess the proposed pathways towards impact:

- Is the contribution of the project towards the 1) expected outcomes of the topic and 2) the wider impacts, in the longer term, as specified in the respective destinations of the WP, credible?
- Are potential barriers to the expected outcomes and impacts identified (i.e. other R&I work
 within and beyond Horizon Europe; regulatory environment; targeted markets; user behavior),
 and mitigation measures proposed? Is any potential negative environmental outcome or impact
 (including when expected results are brought at scale, such as at commercial level) identified?
 Is the management of the potential negative impacts properly described?
- Are the scale and significance of the project's contribution to the expected outcomes and impacts estimated and quantified (including baselines, benchmarks and assumptions used for those estimates)?
 - Scale' refers to how widespread the outcomes and impacts are likely to be. For example, in terms of the size of the target group, or the proportion of that group, that should benefit over time;
 - 'Significance' refers to the importance, or value, of those benefits. For example, number of additional healthy life
 years; efficiency savings in energy supply.



Evaluating the impact criterion (2/2)

Following questions are adapted to RIA and IA type of actions (ToA). Similar questions will be asked for other ToAs, in line with the instructions in the specific applications forms.

Assess the measures to maximise impact – Dissemination, exploitation and communication:

- Are the proposed dissemination, exploitation and communication measures suitable for the project and of good quality? All measures should be proportionate to the scale of the project, and should contain concrete actions to be implemented both during and after the end of the project.
- Are the target groups (e.g. scientific community, end users, financial actors, public at large) for these measures identified?
- Is the strategy for the management of intellectual property properly outlined and suitable to support exploitation of results?
 - If exploitation is expected primarily in non-associated third countries, is it properly justified how that exploitation is still in the Union's interest?







Kritikpunkte aus ESRs 1/2

- Die angestrebten Ergebnisse werden nicht zu den erwarteten Outcomes führen. Statt Wirkungspfaden werden Begründungen der Notwendigkeit des Topics bzw. des Projektes geschrieben.
- Die erwarteten Wirkungen / Wirkungspfade sind vage / oberflächlich / generisch / nicht glaubwürdig / unzureichend ausgearbeitet
- Es fehlen belastbare / nachvollziehbare Indikatoren (key performance indicators, KPI); KPIs sind nicht anspruchsvoll genug
- Es fehlen Aussagen zur Übertragbarkeit bzw. Skalierbarkeit der erwarteten Ergebnisse.
- Keine / unzureichende Beschreibung von Hemmnissen / deren Überwindung





Kritikpunkte aus ESRs 2/2

- Der dissemination plan ist nicht detailliert genug
- Die Einbeziehung spezifischer Zielgruppen (z.B. (!) politisch Entscheidungstragende) fehlt / ist vage / nicht ausreichend beschrieben / nicht überzeugend.
- Die Beziehungen zwischen den Kommunikationsmaßnahmen und den Bedürfnissen der Zielgruppen sind unzureichend beschrieben.
- Die angestrebten Produkte f
 ür D&E&C sind wenig ambitioniert.
- Es fehlt eine Strategie / konkrete Maßnahmen zum Schutz von IPR





Beispiele aus ESRs, Impact-Kriterien 1/2

- [..], the expected impacts are not credible in relation to the actions proposed for achieving them. They are vague and aspirational rather than founded on evidence and specific plans. They lack relevant KPIs. This is a significant weakness.
- The barriers to achieve the expected outcomes and impacts, and the necessary mitigation measures, are not explicitly specified. This is a shortcoming.
- [...] although the pathways to achieve the expected outcomes of the topic are credible, the scale and significance of the impacts have been assessed superficially, which is a shortcoming.





Beispiele aus ESRs, Impact-Kriterien 2/2

- However, the proposal does not clearly differentiate communication and dissemination activities. [...] Moreover, proposed draft exploitation measures are not sufficiently explained or detailed [...]. These are shortcomings.
-the proposal fails to describe the measures of how to reach [target audiences].
- The strategy for intellectual property rights (IPR) management is insufficiently presented to convincingly support the exploitation of results.





Evaluierungskriterien Implementierung

The following aspects will be taken into account, to the extent that the proposed work corresponds to the description in the work programme:

- Quality and effectiveness of the work plan, assessment of risks, and appropriateness
 of the effort assigned to work packages, and the resources overall.
- Capacity and role of each participant, and the extent to which the consortium as a whole brings together the necessary expertise.



Evaluating the Quality of implementation (1/2)

Following questions are adapted to RIA and IA type of actions (ToA). Similar questions will be asked for other ToAs, in line with the instructions in the specific applications forms.

Assess the proposed work plan, and the effort and resources:

- Is the work plan of good quality and effective?
- Does it include quantified information so that progress can be monitored?
- Does it follow a logic structure (for example regarding the timing of work packages)?
- Are the resources allocated to the work packages in line with their objectives and deliverables?
- Are critical risks, relating to project implementation, identified and proper risk mitigation measures proposed?

Do not penalize applicants that did not provide detailed breakdown of costs as they are not required. Exception: In the case of lumps sums, there is a requirement of a detailed budget table.





Evaluating the Quality of implementation (2/2)

Assess the quality of participants and the consortium as a whole (Note that important information on role of individual participants and previous experience is included in part A of proposal)

Following questions are adapted to RIA and IA type of actions (ToA). Similar questions will be asked for other ToAs, in line with the instructions in the specific applications forms.

- Does the consortium match the project's objectives, and bring together the necessary disciplinary and interdisciplinary knowledge.
- Does the consortium include expertise in **open science practices**, and **gender aspects of R&I**, as appropriate?
- For topics flagged as SSH relevant, does the consortium include expertise in social sciences and humanities?
- Do the partners have access to critical infrastructure needed to carry out the project activities?
- Are the participants complementing one another (and cover the value chain, where appropriate)
- In what way does each of them contribute to the project? Does each of them have a valid role, and adequate resources in the project to fulfil that role (so they have sufficient operational capacity)?
- Is there industrial/commercial involvement in the project to ensure exploitation of the results?

Participants' previous publications, in particular journal articles, are expected to be open access and existing datasets FAIR and 'as open as possible, as closed as necessary'. Evaluate positively if this is sufficiently addressed.





Mängel und Schwächen in Anträgen 1/2

- Risikomanagement und Analyse
- Zusammenstellung des Konsortiums, geographische Abdeckung (Topicabhängig), multi-Disziplinarität, Multi-actor approach
- Arbeitsplan ist nicht realistisch, keine oder nur geringe Flexibilität
- Tasks, Deliverables und Milestones nicht adäquat und unzureichend erläutert
- Kooperation mit (laufenden) Projekten unzureichend erläutert





Mängel und Schwächen in Anträgen 2/2

- Kohärenz bzgl. der durchzuführenden Aktivitäten
- Unstimmigkeiten in den Beschreibungen und den Tabellen
- Fähigkeiten und Expertise unzureichend belegt bzw. erläutert
- Sozial- und Geisteswissenschaften nicht adäquat berücksichtigt
- Ressourcen Ungleichgewicht bzw. nicht nachvollziehbar
- Budget nicht angemessen bzw. unklare Darstellung





Beispiele aus den ESRs 1/2

- Risks are presented but not fully considering the scope of the project.
- Detailed information is missing on the process of envisaged coordination mechanisms to effectively put in operation the collaborative work of ...
- Although related EU projects are mentioned, the activities linked with the proposal (to contact with and build on) at national/regional level are described insufficiently.
- In general, the deliverables were not adequately designed and WPXYZ lacks a sufficient number of deliverables.





Beispiele aus den ESRs 2/2

- The consortium as a whole brings together the necessary expertise, in complementary
 disciplines as "cluster 6" science, economics, and consumer science, citizen science,
 environment, health, social science, and humanities. However, the capabilities and
 experience of some partners are not well demonstrated in relation to the tasks they have
 to perform.
- The proposal does not fully demonstrate that the necessary expertise relating to social sciences and humanities is present.
- The work plan is not elaborated properly.





Unser Service ist kostenlos und vertraulich

Nationale Kontaktstelle Bioökonomie und Umwelt

Erstberatung

+49 (0)30 20199 3682

nks-bio-umw@fz-juelich.de

Vortrag

Dr. Frank Dreger

Tel.: +49 (0)30 20199 3116

E-Mail: f.dreger@fz-juelich.de

Vortrag

Dr. Alexandros Theodoridis

Tel.: +49 (0)228 60884 255

E-Mail: <u>a.theodoridis@fz-juelich.de</u>

Dr. Rolf Stratmann

Tel.: +49 (0)228 60884 261

E-Mail: <u>r.stratmann@fz-juelich.de</u>

Unsere neue Internetseite: www.nks-bio-umw.de

Newsletteranmeldung: https://www.nks-bio-umw.de/service/newsletter





Fragen?

Wählen Sie für Ihre Fragen im Chat bitte "Allen" aus!

Fragen an "Alle Teilnehmer" sehen die übrigen Diskussionsteilnehmenden nicht!