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# MOU PARTNER EMRESSION

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## EINSTEIN TELESCOPE IN EMR REGION

#### Einstein Telescope in the EMR region

- Many institutions signed the MoU
- A lot of (international) ET activities

## Can we further team-up in the preparation of the EMR site?

 This meeting is to re-new the discussion with the scientific delegates of the MoU partners



## MOU PARTNERS

12 partners signed in 2018, more partners appeared afterwards:

- Nikhef
- KU Leuven
- Universiteit Maastricht
- Universiteit Gent
- Universiteit Hasselt
- RWTH Aachen
- UC Louvain
- Vrije Universiteit Brussel
- Universiteit Antwerpen
- Université de Liège
- Université Libre de bruxelles
- Universität Hamburg
- Université de Mons
- Westfälische Wilhelms-Universität Münster (WWU Münster)
- Leibniz Universität Hannover (LUH)
- Max-Planck Institut f
  ür Gravitationsphysik (MPG) Albert Einstein Institute (AEI)
- Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)
- Fraunhofer Institute for Laser Technology ILT
- Université de Namur
- Radboud Universiteit Nijmegen

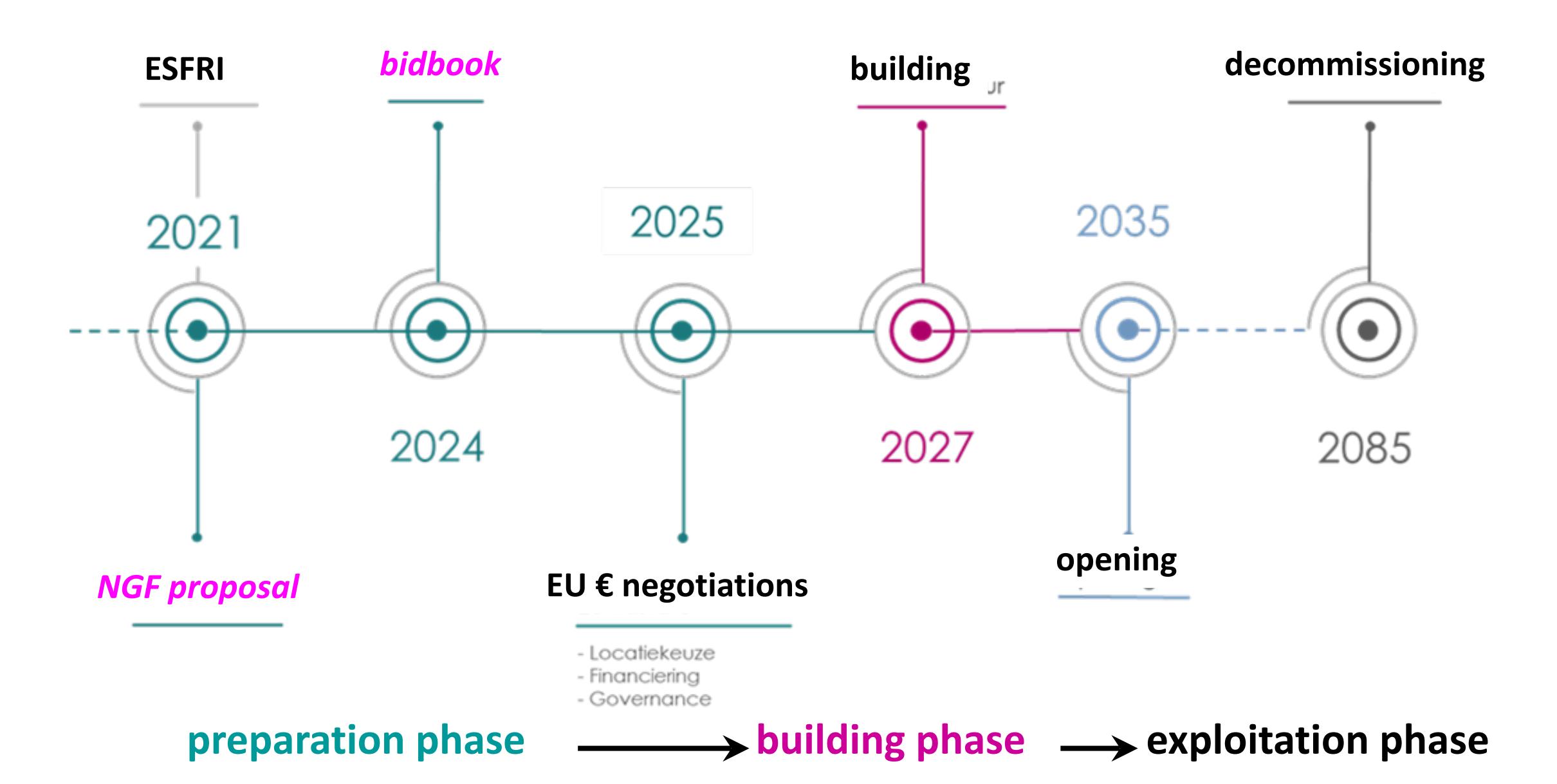
#### Memorandum of Understanding (MoU) Agreement

on the cooperation on research and development and preparatory actions toward a case for a bid for hosting Einstein Telescope in EU region Meuse-Rhine, hereafter also referred to as "Cooperation Agreement"

We need to check this list of partners of the EMR region. Everybody is welcome to join! Contact person: Rob van der Meer (<u>r.van.der.meer@nikhef.nl</u>)



## Einstein Telescope planning



## A BID OF THE EMR REGION

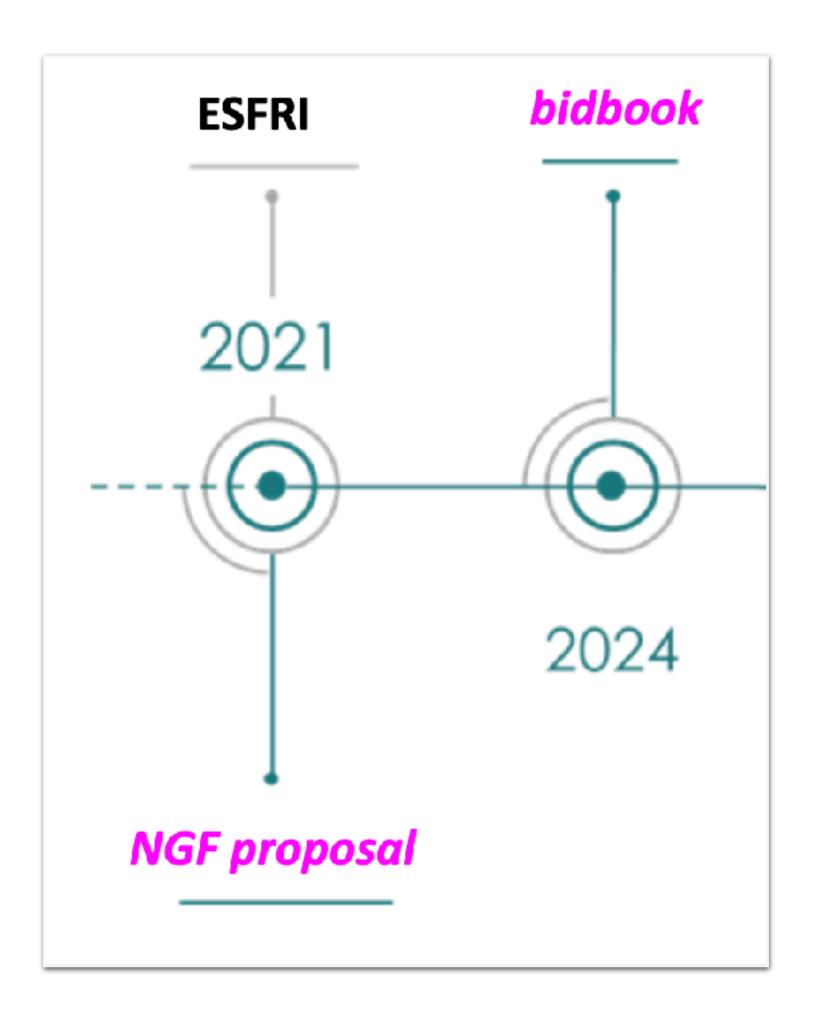
## We have to show the EMR region wants it

- Maximum support from B,G,NL
  - Further lobby at scientist level
  - Explore all contacts with decision-makers
- Funding from EMR countries

## The geology of the EMR site is crucial

- Determine exact location of the infrastructure
  - De-risk any potential show-stoppers
- Mitigate any noise sources

The exact content of the bid is not yet clear



## ET IN EUREGIO MEUSE-RHINE (EMR)

#### **Dutch National Growth Fund for ET**

- 42 ME (conditionally) awarded now
  - Money flows from 2023
  - 19 ME: connections to industry for research and innovation: 'the aim of this programme is to optimally position [...] in particular Dutch industry, for R&D and orders related to Einstein Telescope'
  - 23 ME: 'for the preparation toward the realisation of the underground infrastructure [...]', project organisation and management
- 870 ME have been reserved for the construction of the ET infrastructure
  - If the EMR site is selected as the location for ET



## ET IN EUREGIO MEUSE-RHINE (EMR)

#### Geology activities

- A series of workshops in the preparation of the bidbook to determine the exact location of the infrastructure
  - Further (seismic) surveys and boreholes for geophysical imaging
  - Partners from Belgium, Germany, the Netherlands
    - E-TEST, RWTH, Liege, KNMI, TNO, Technical Universities, ...
- Converge to a realistic and effective activity plan that supports the sense of urgency

#### Surrounding activities

- Permits for wind turbines and other noise sources
  - Including the study of their effect on the ET



## EINSTEIN TELESCOPE IN EMR REGION

Proposed discussion after the presentations

#### Team-up during the crucial coming two to three years

- Regular informative (short) meetings with all MoU partners
  - Status updates and alignment

## Organise help to validate the EMR region

- Noise studies, environmental issues, geology, etc
  - We need manpower! Think of PhD or PostDocs etc

## Lobby toward decision makers

- Organise a meeting with your institute managers, directors, etc.
  - Can we get them together in the EMR region for half a day on bid-book?

#### Position ourselves in the international ET collaboration

Position the EMR region as truly valid ET location





## Agenda for this afternoon

