

# **A Proposal to Do Remote Initial Vetting of Identity with PKI Credential**

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# Introduction

- HPCI must vet the identity of user based on a face-to-face meeting if user's research proposal is accepted.
- It is tough to carry out initial vetting of identity based on a face-to-face meeting at a service desk located in Japan if the user lives in a foreign country.

# Introduction (cont'd)

- Question
  - How does HPCI IdM vet the identity of user who cannot come to a service desk located in Japan ?
  - It is an important issue to establish a remote initial identification procedure.
- Solutions
  - A video-supported identity vetting guidelines that IGTF is discussing.
  - We propose a method for remote initial vetting of identity with PKI credential.
    - This method needs your cooperation !

# Basic Idea

- A trust federation consists of IdPs and SPs.
  - Each IdP in the trust federation ensures the same level of identity vetting.

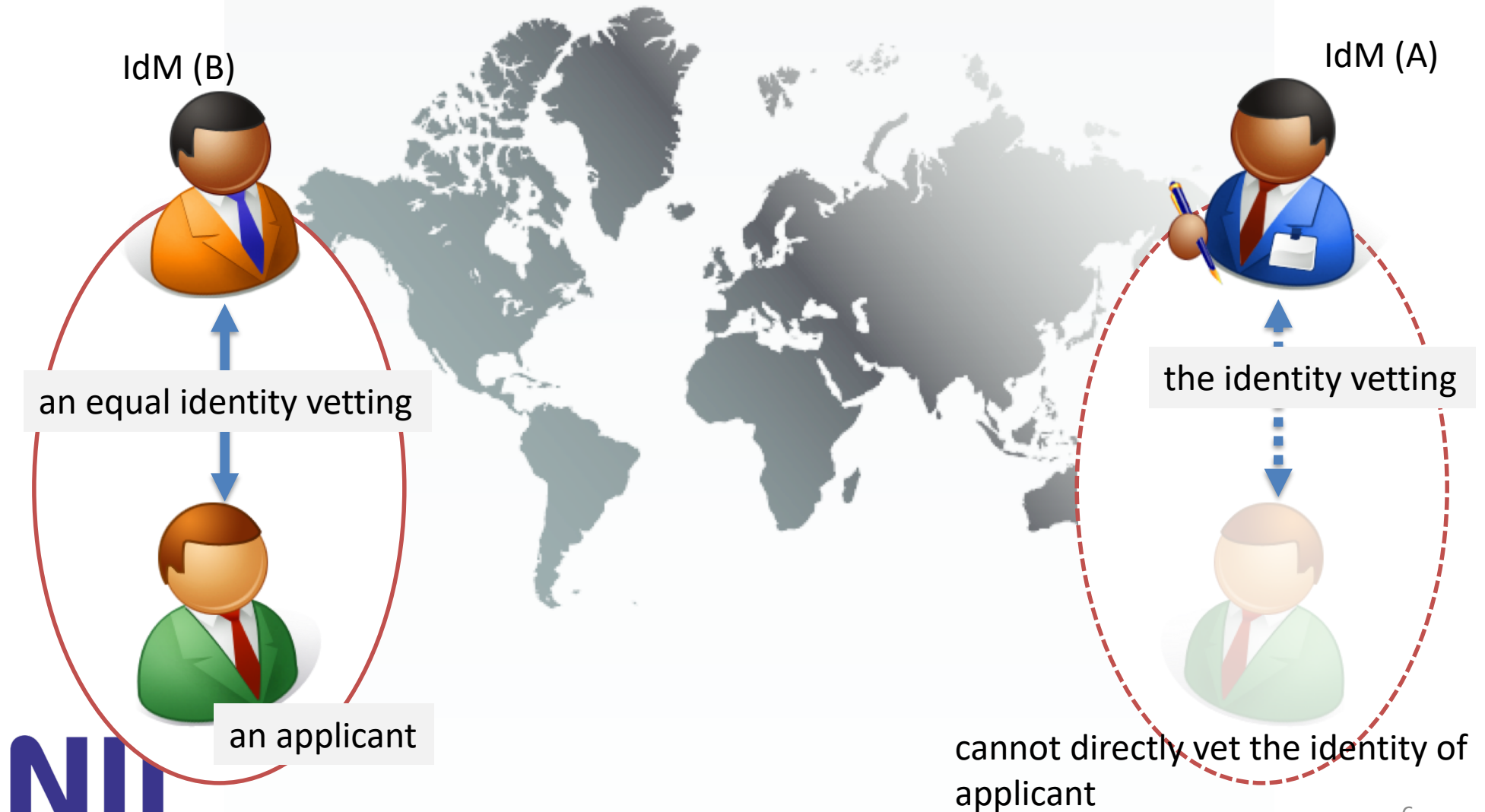


- Abandoning an attempt for the system itself to vet the identity of an applicant.
- Instead, using a credential generated by the identity data already confirmed **based on an equal identity vetting.**

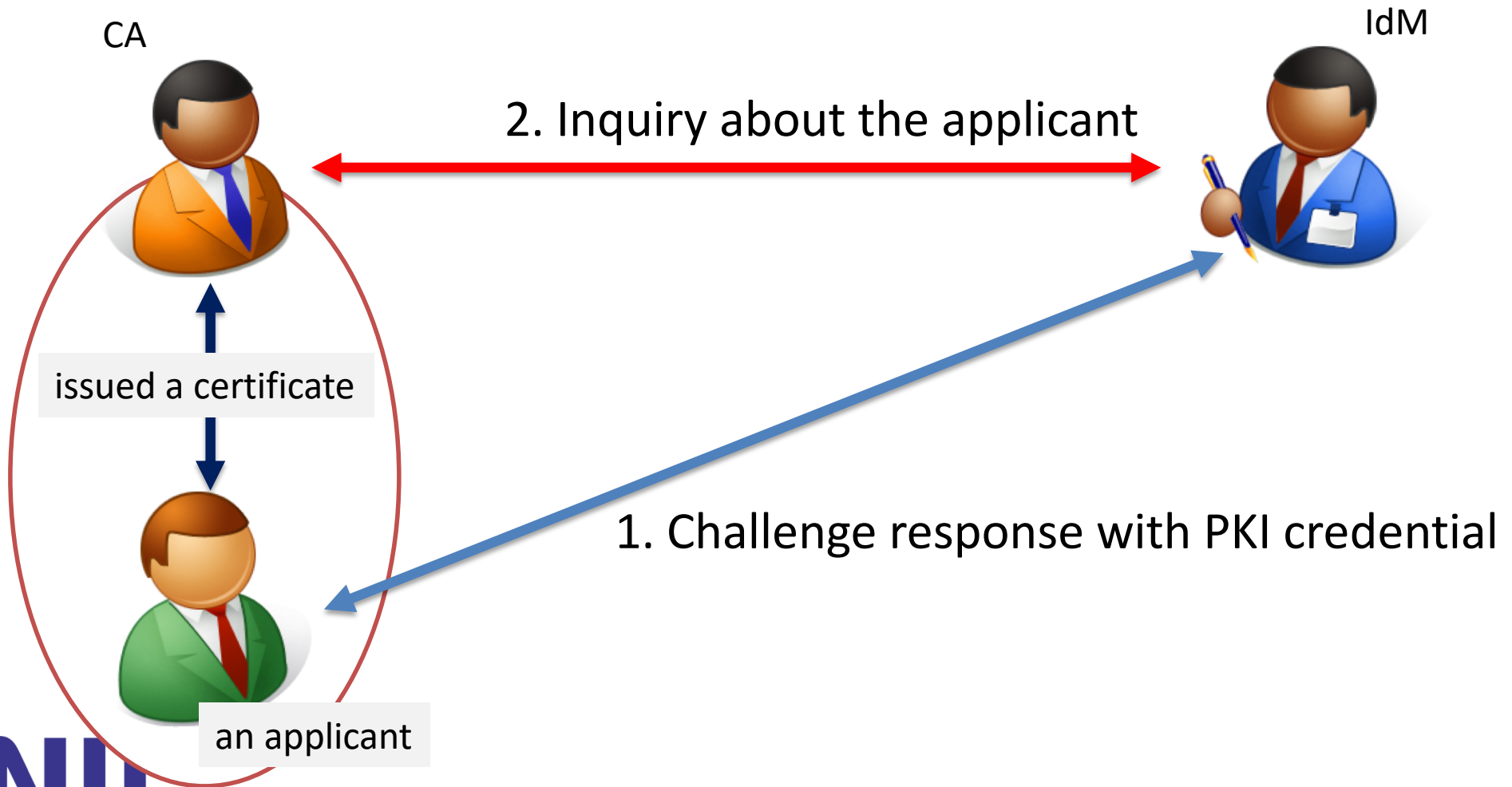
# Basic Idea (cont'd)

- HPCI CA issues certificates based on MICS profile.
- CA that ensures the same level as HPCI CA is
- A member of APGridPMA !
- We would like to use certificates issued by APGridPMA member's CA for initial identity vetting in HPCI

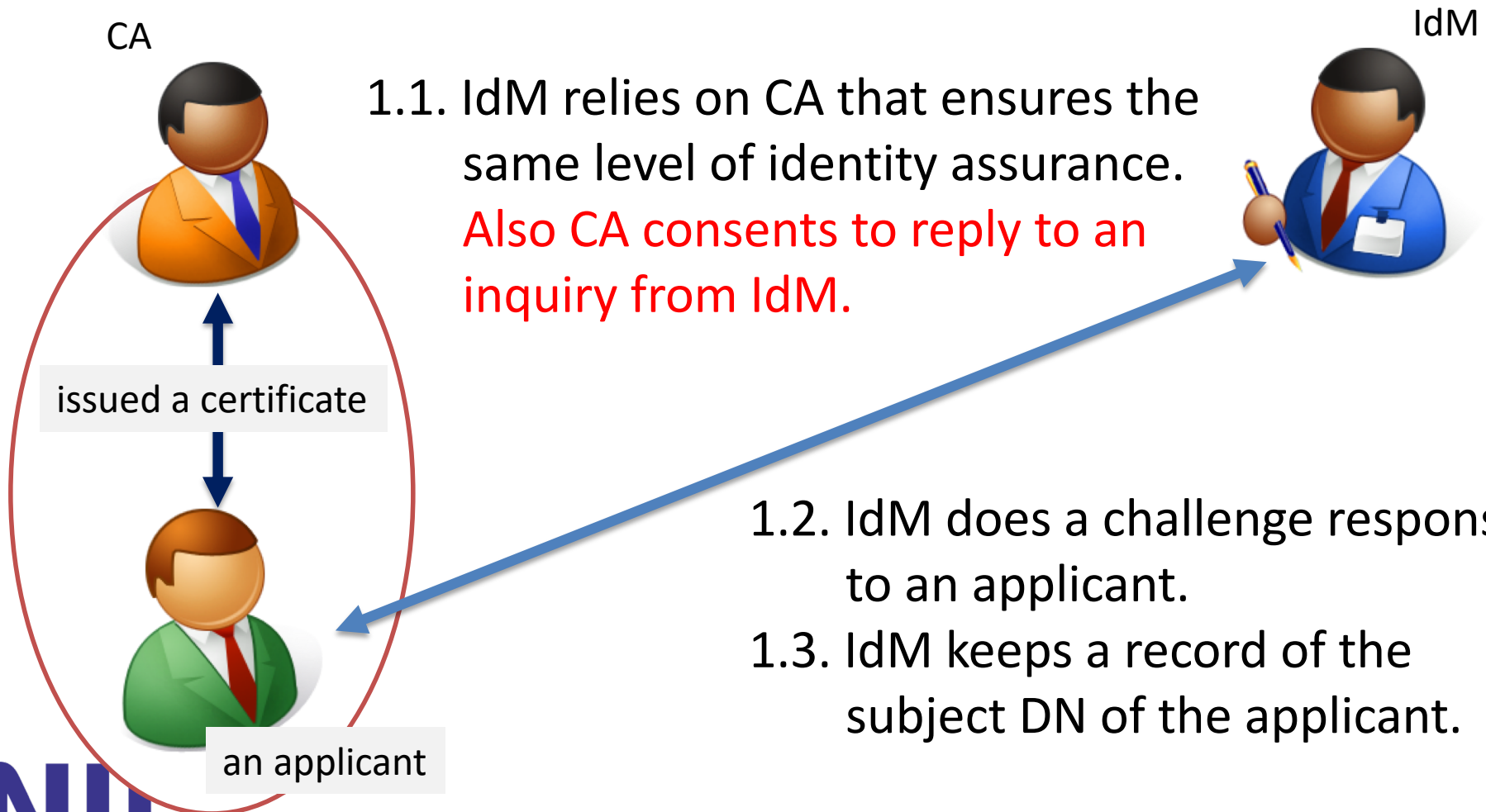
# Basic Idea (cont'd)



# Proposed Process with PKI Credential



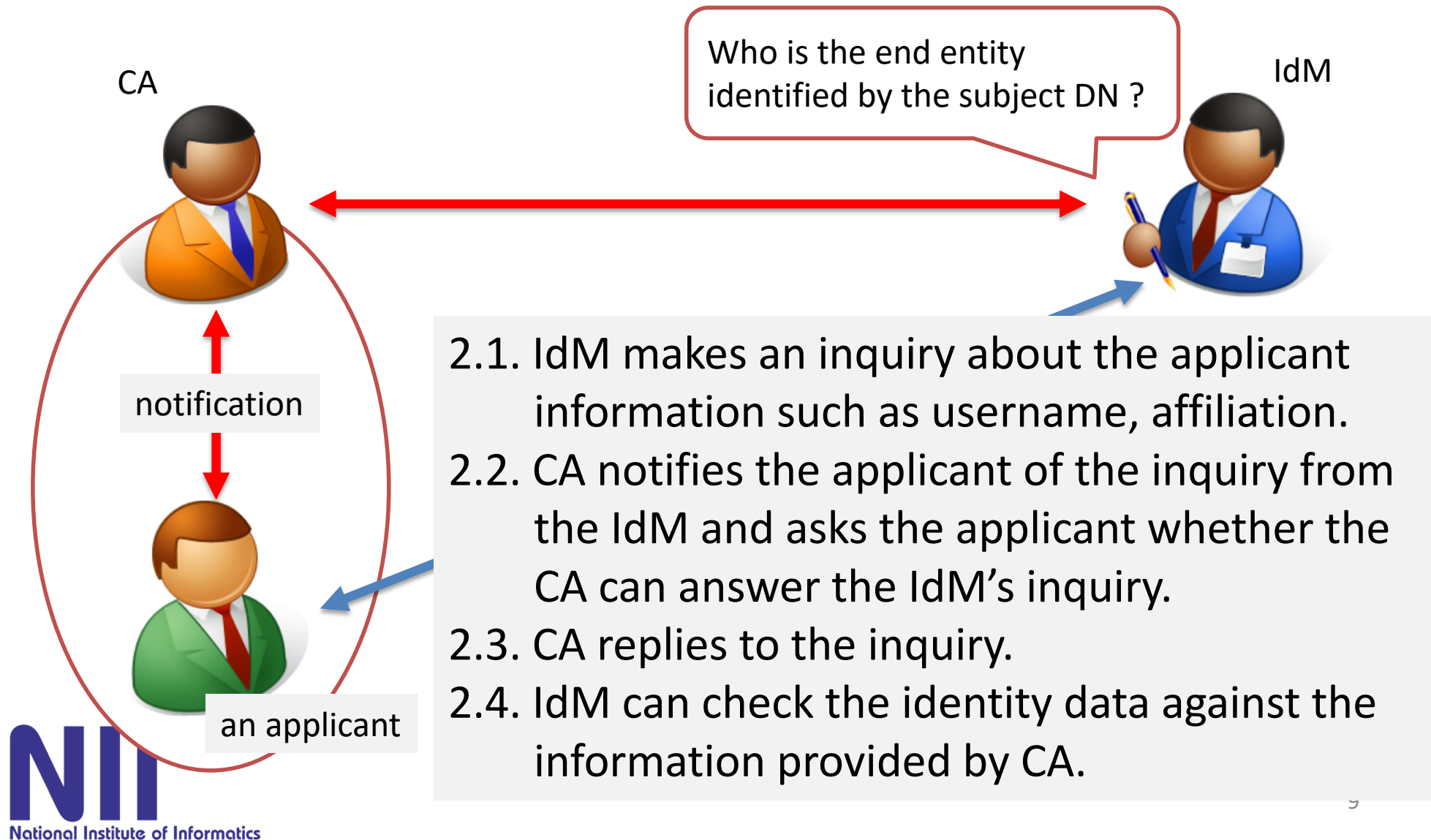
# Challenge Response with PKI Credential



- 1.2. IdM does a challenge response to an applicant.
- 1.3. IdM keeps a record of the subject DN of the applicant.



# Inquiry about the Applicant



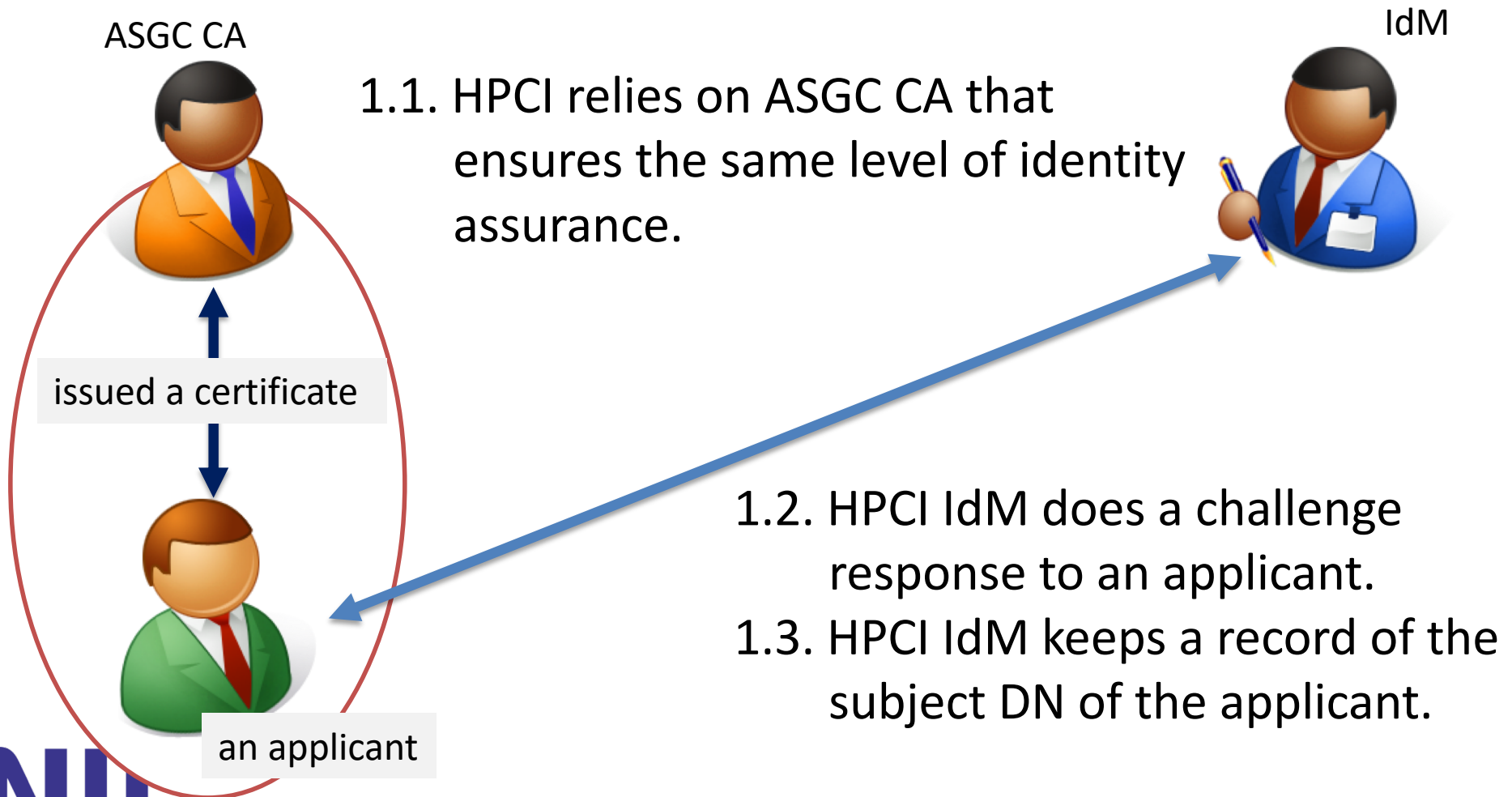
# Inquiry about the Applicant (cont'd)

- Why is the inquiry about the applicant needed ?
  - Necessary information cannot always be read from the subject DN.
  - Even if necessary information used in checking can be read from the subject DN, CA should notify the applicant of the inquiry from the IdM and confirm that the inquiry is valid in the identity vetting by the IdM because the applicant is not in the presence of the personnel of the IdM.

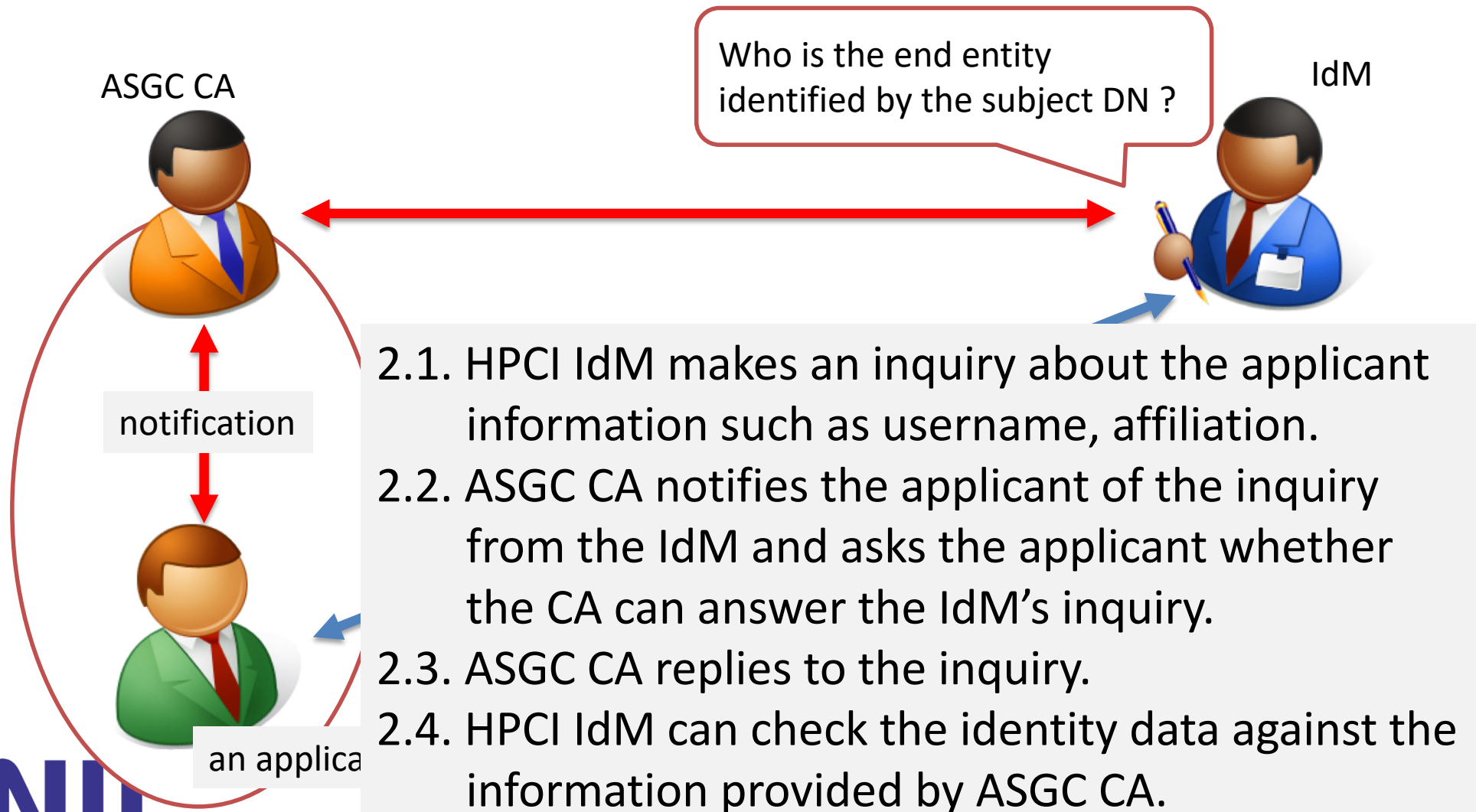
# Example

- A researcher of Academia Sinica applied a research proposal to HPCI.
- The research proposal has been accepted.
- HPCI IdM must vet the identity of the researcher based on a face-to-face meeting.
  
- The researcher has already a certificate issued by ASGC CA.
- HPCI IdM will use the certificate issued by ASGC CA for initial identity vetting.

# Challenge Response with PKI Credential



# Inquiry about the Applicant



# Could you help us ?

- To easily do remote initial vetting of identity and to promote more international computing resource use as well,
- Could APGridPMA members consent to reply to an inquiry from HPCI IdM ?
- Could you notify the user who has your certificate of the inquiry from HPCI IdM and confirm that the inquiry is valid in the identity vetting by HPCI IdM ?

Thank you for your cooperation !