



The Role of Women in the Development of Effective Nuclear Risk Communication A Case Study by WiN Turkey

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**Communicating Nuclear and Radiological
Emergencies to the Public**

Nuclear Power Development in Turkey

Republic of Turkey is a dynamic newcomer country.

- Turkish government is planning to build three nuclear power plants by the end of 2023.
- The share of nuclear is expected to cover 10 % of the total electricity generation of the country.

First NPP Project; Akkuyu is the

world's first NPP project implemented on BOO model.

The construction of the 4.8 GW Akkuyu NPP has formally begun.

First safety-related concrete was poured for unit 1 on 3 April 2018.





<https://www.facebook.com/nukadTurkiye/>





Women in Nuclear Turkey (NÜKAD)

- The aim of NÜKAD is to communicate with public on the benefits of nuclear energy and on the NPPs planned for Turkey.
- NÜKAD has designed and initiated a risk communication project called «NUKOM» based on the experience and insights gained from the environmental risk assessment, risk perception, and probabilistic safety projects undertaken by women nuclear scientists in Turkey.
- NUKOM Project has various aspects:
 - Accepting public and decision makers as main partners,
 - Developing awareness on the importance of effective risk communication during any emergency (Nuclear, radiological or non–nuclear).
 - Establishing effective emergency risk communication network of reliable, scientific information flow.





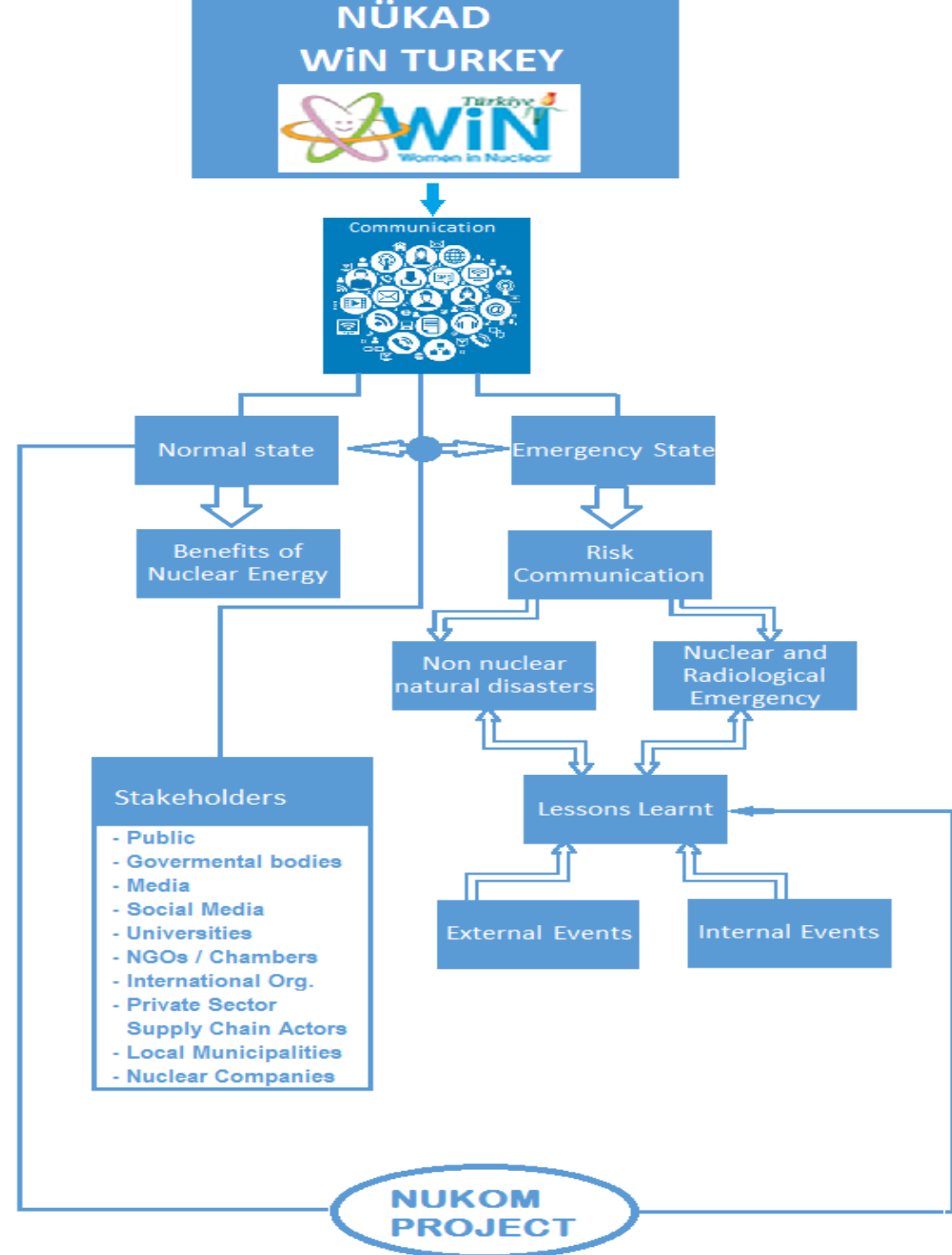
NUKOM Project of WiN Turkey

- Evaluation of lessons learnt from the public risk perception on nuclear and radiological accidents/incidents in the past.
- Nuclear and radiological emergency may be arising due to cross border accidents externally from other countries (TMI, Chernobyl, Fukushima) or internally due to radiological incidents within the newcomer.
- Preparing information kits for transferring scientific risk information into public language during and after emergency.
- Investigating sociological and cultural factors that may create public misperceptions about risks.
- Continuing risk perception survey among groups with different socio-economic backgrounds.
- Encouraging and collaborating with main stakeholders to develop a public risk communication means parallel to the plans for safety culture, public information of NPP projects.



NÜKAD Communication Flow Chart

the birth of
NUKOM Project



Concluding remarks on NUKOM

- NUKOM is an ongoing dynamic voluntary project of WiN Turkey.
- Results of thousands of risk perception survey carried out over among different target groups.

One of the major finding of the survey to the question on *"During any emergency event and after; What type of information, from which sources you'd trust most?"*

- Survey filling responses have indicated that more than 40% of participants trust scientific information, 19.9 % to social media and 17.7% to NGOs.

General outcomes of the study shows that;

- * Public is in need of more information on nuclear power and radiation.
- * Public shows more interest and trust to scientific information and to the social media more than other information sources.



Other means of communication with public in Turkey

- Istanbul Technical University Nuclear Energy Information Center
- Target group is school children
- 45 minutes interactive video on 7x4 m panoramic screen for 26 visitors (4 sessions/day)
- Questions and answers session afterwards
- Free of charge
- ~2000 visitors/year
- 77% of the visitors think nuclear power is safe, 7% not safe, 16% undecided. (200 participants)





Concluding remarks

- As WiN Turkey (NÜKAD), we will continue our efforts to support peaceful uses of nuclear energy in the region and Turkey's nuclear power programme by enlarging our public communication activities.
- Recognition of nuclear and radiological risk communication as a sensitive issue that must be considered starting from the planning stage and during the implementation of a NPP Projects in new comers.
- We'd like to emphasize the importance of cooperation on sharing experience between women in nuclear power countries with newcomers on the public acceptance of communication issues.



Thank you for your
attention!



Teşekkür ederim!

