

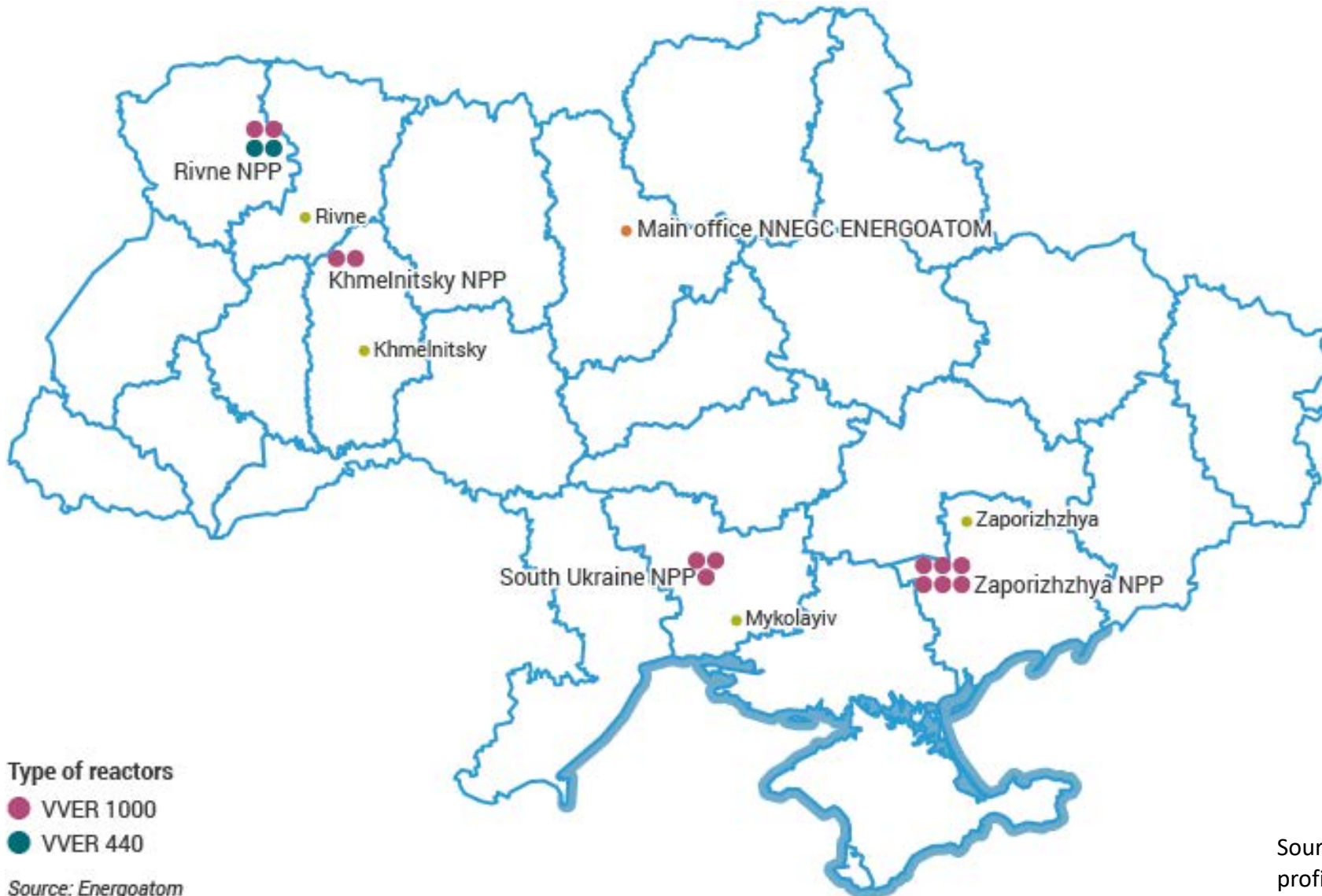
# NSF Presentation

Anya Fink  
March 9, 2022

# Outline

- Ukraine's NPPs during the conflict
- Belarus and nuclear weapons
- Russian approaches to escalation management

# Ukraine's NPPs

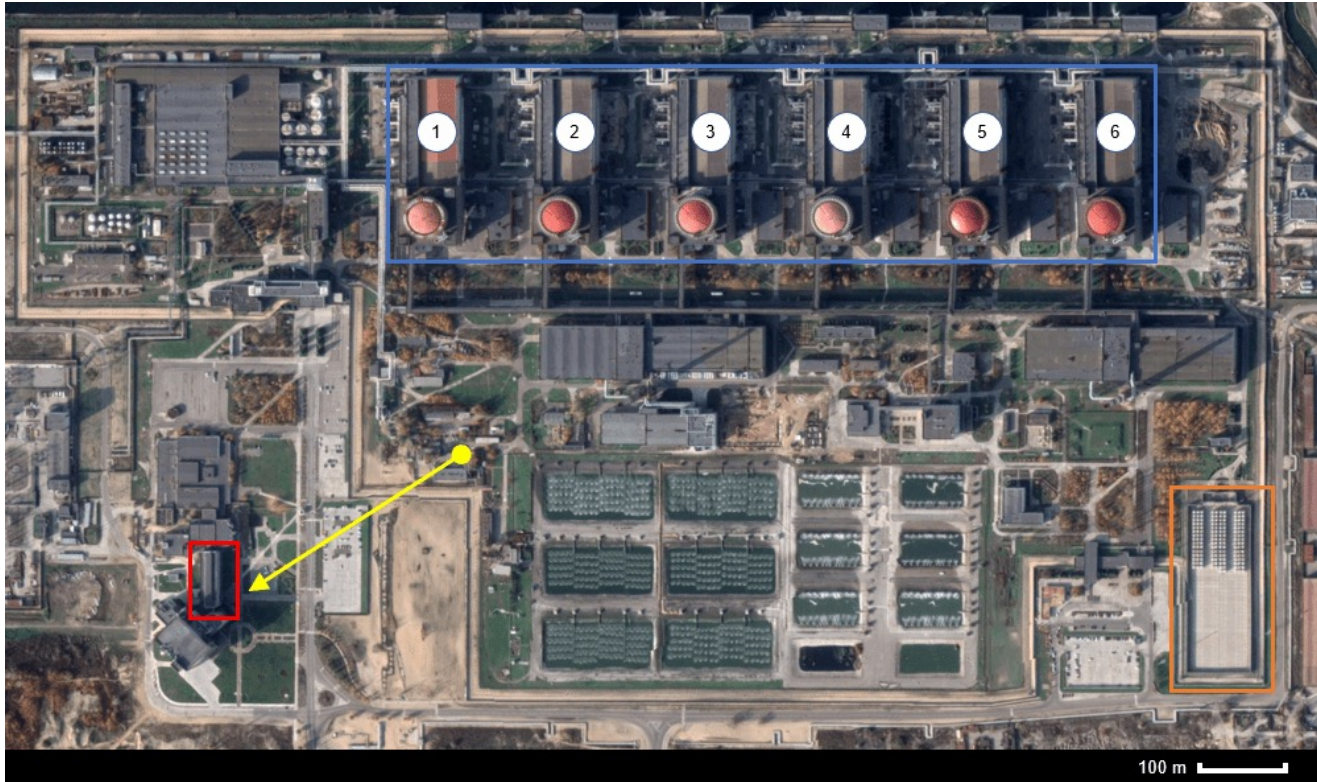


Best resource on current safety situation:

<https://www.iaea.org/ukraine-conflict> and  
<https://twitter.com/iaeaorg>

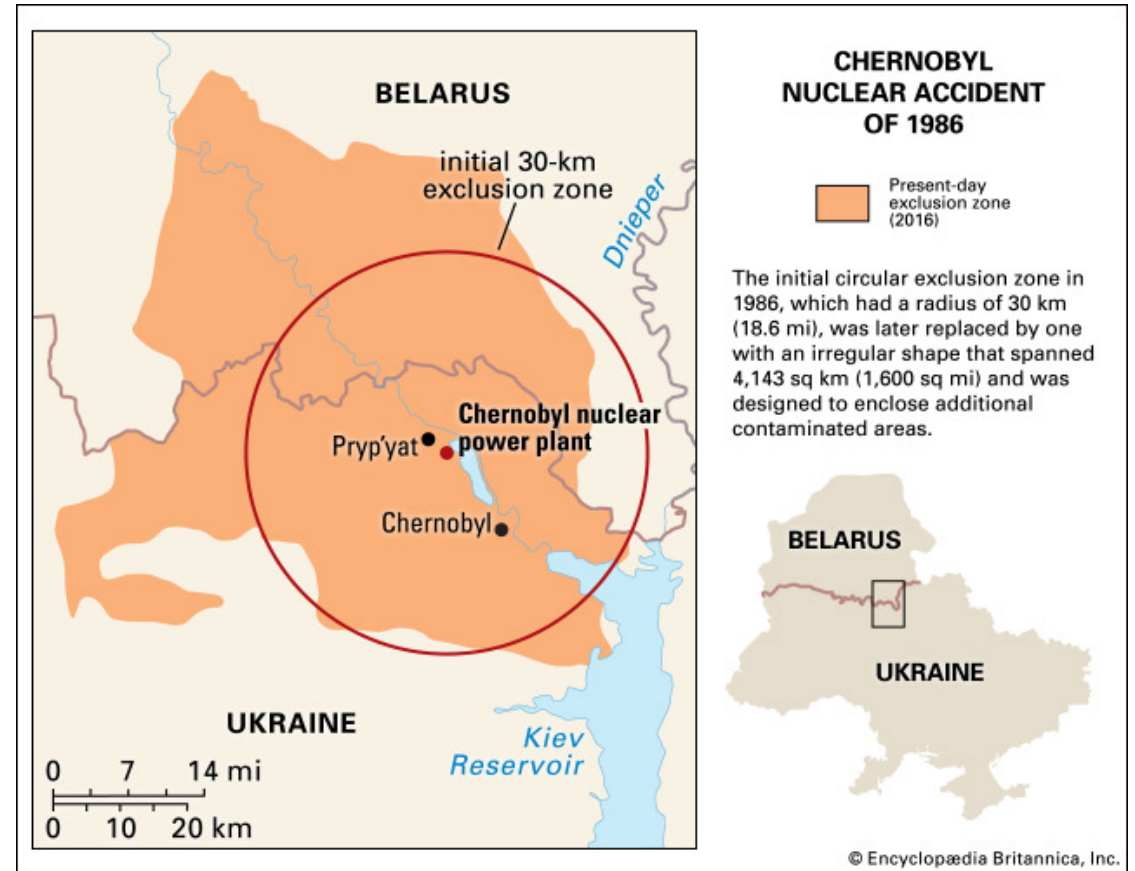
Source: <https://world-nuclear.org/information-library/country-profiles/countries-t-z/ukraine.aspx>

# Zaporizhzhia NPP



Source: <https://world-nuclear.org/information-library/country-profiles/countries-t-z/russian-military-operation-and-ukraine-s-nuclear-p.aspx>

# Chornobyl NPP



Sources: <https://kids.britannica.com/students/assembly/view/241163>;

<https://www.bbc.com/future/article/20170101-a-new-tomb-for-the-most-dangerous-disaster-site-in-the-world>

# Belarus and nuclear weapons

- Upon independence in 1991, inherited 81 road-mobile SS-25s at three missile bases, and some number of tactical nuclear weapons
- Acceded to START and the NPT in 1993
- Transferred all nuclear weapons to Russia by 1996
- Amended constitution in Feb 2022 to allow Russia to deploy nuclear weapons on Belarusian territory



# Russian approaches to escalation management

- Declaratory policy prior to invasion
- On Feb 27, Putin announces “special service regime” of Russian deterrent forces
  - Triggers speculation, translation as “high alert”
  - But, no “muscle movements” reported by USG
  - And, TASS reports suggests only increased manning
- What are situations for Russian nuclear use?

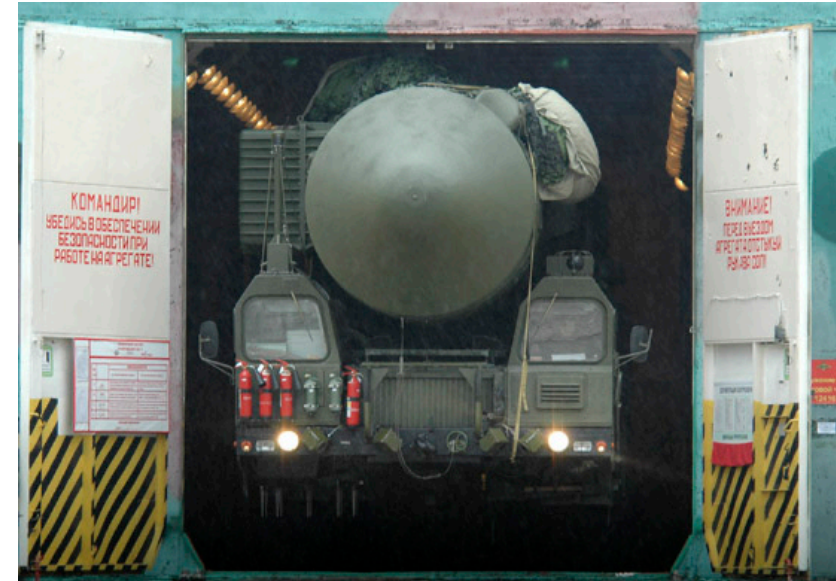
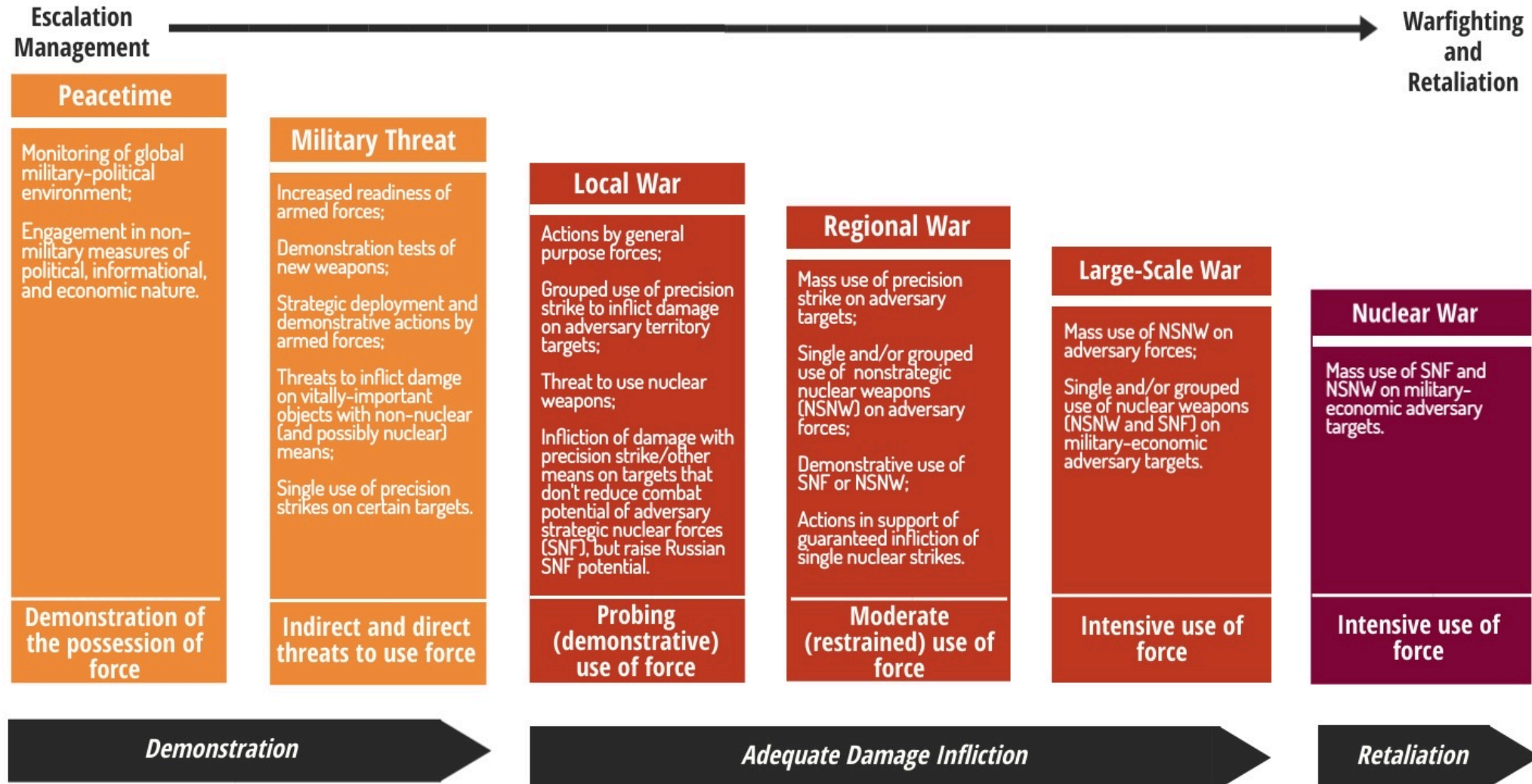


Image: [https://en.wikipedia.org/wiki/RS-28\\_Sarmat](https://en.wikipedia.org/wiki/RS-28_Sarmat)

# Russian Model for Escalation Management



Source: Michael Kofman, Anya Fink, and Jeffrey Edmonds, Russian Strategy for Escalation Management: Evolution of Key Concepts, CNA, 2020, <https://www.cna.org/centers/cna/sppp/rsp/escalation-management>.