



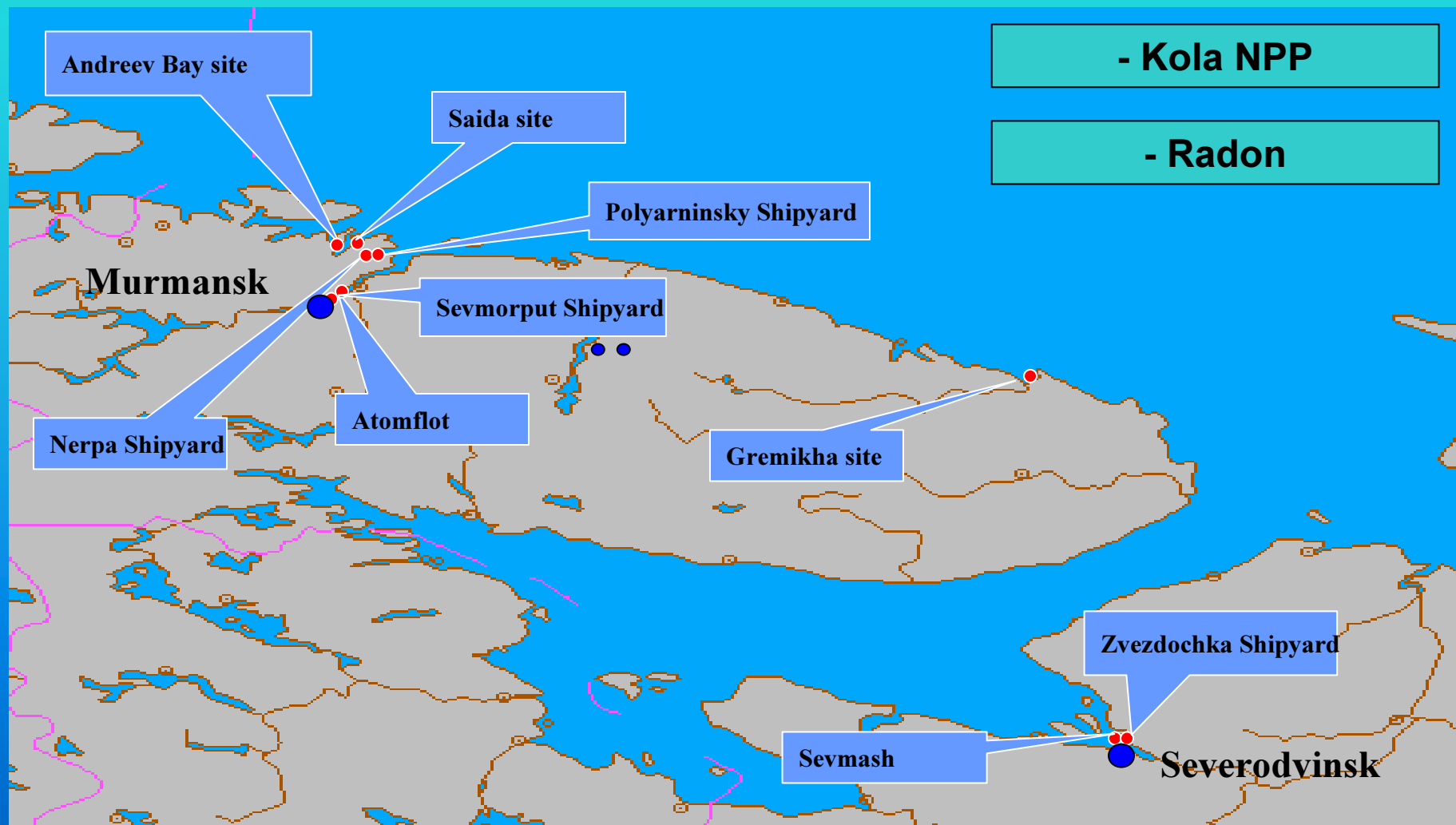
N.A. DOLLEZHAL RESEARCH  
AND DEVELOPMENT INSTITUTE  
OF POWER ENGINEERING

# General concept of nuclear legacy waste management in the North- West of Russia

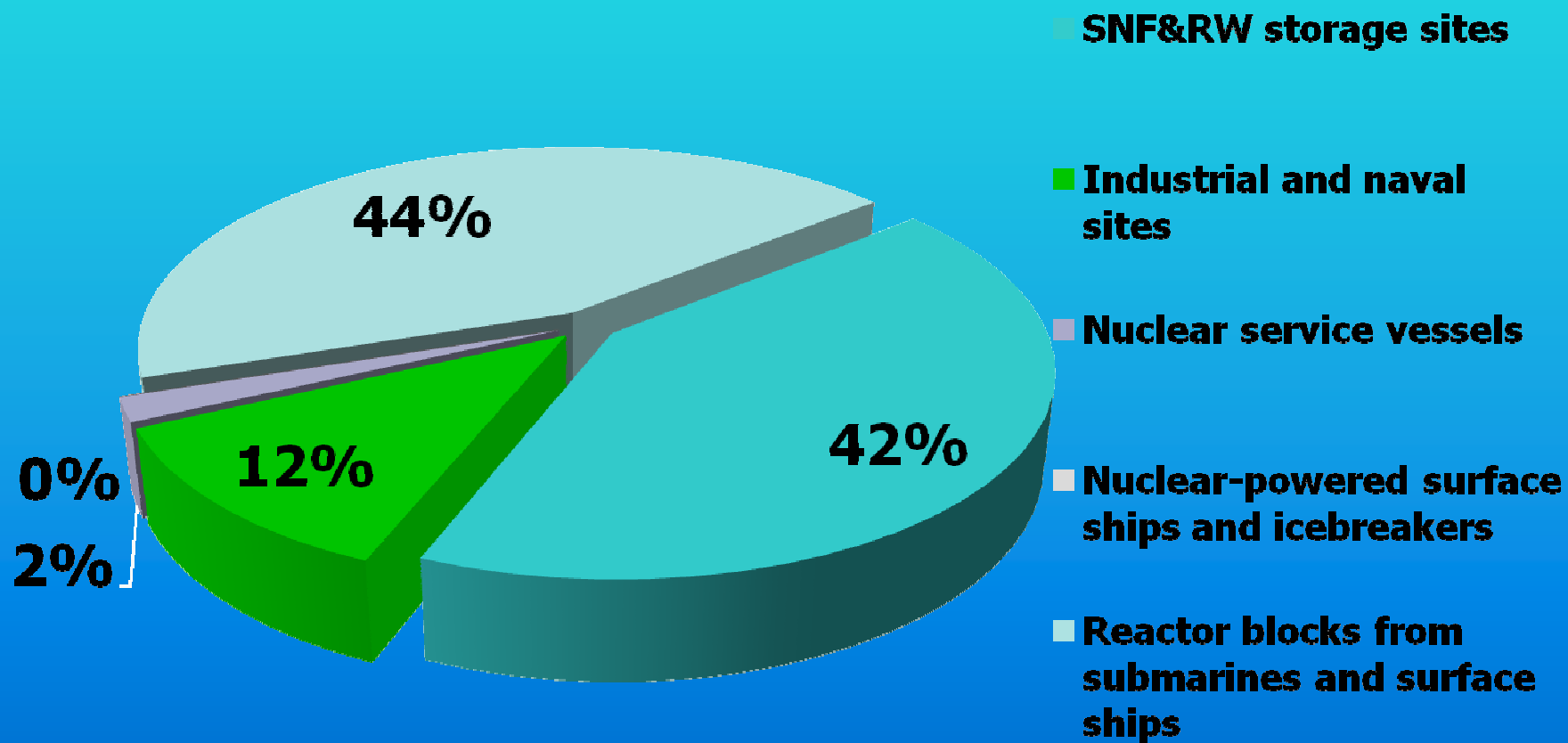
A.O. Pimenov  
Deputy Chief Designer

Oxford, March 2008

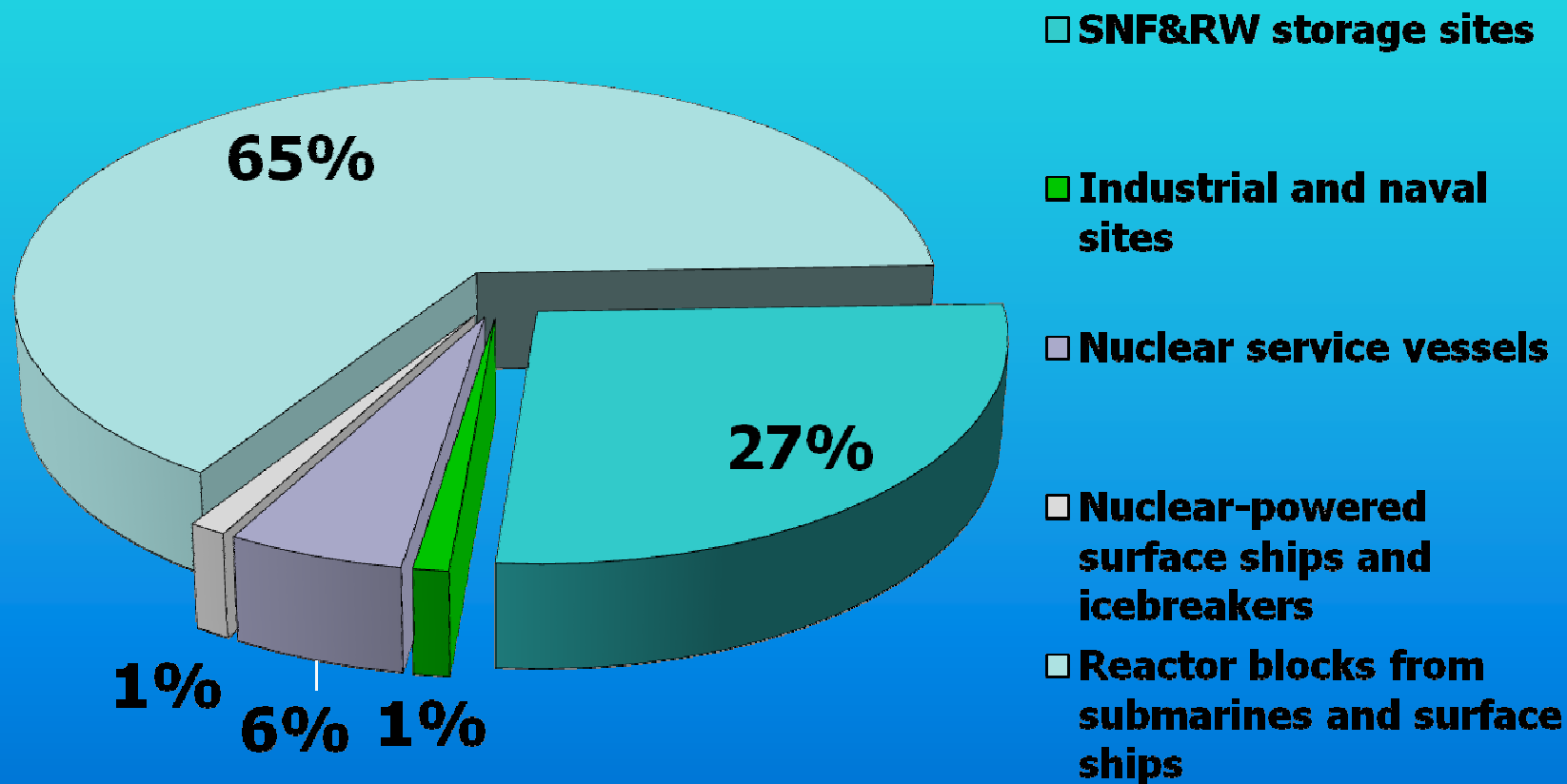
# Location of RW storage sites in the North-West of Russia



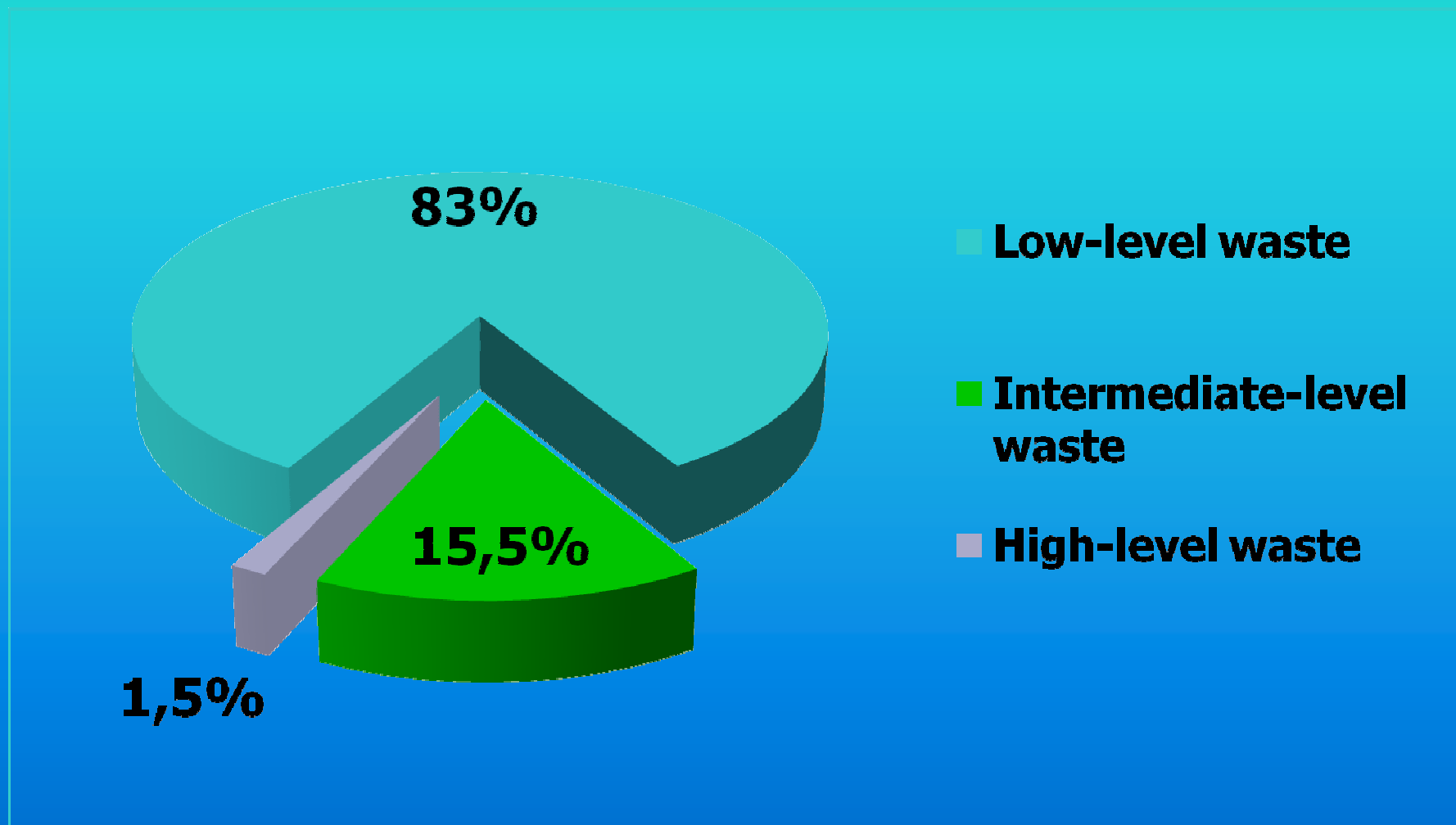
## Distribution of accumulated radioactive waste by sources



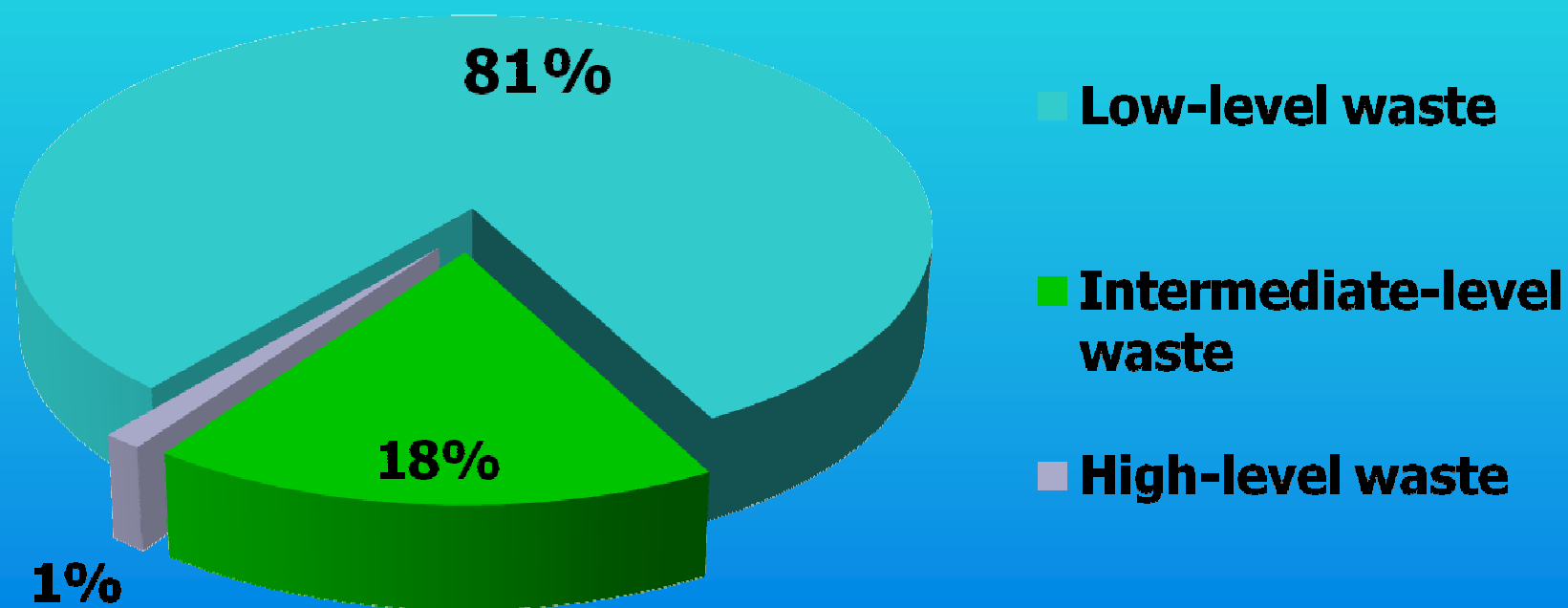
## Distribution of future radioactive waste by sources

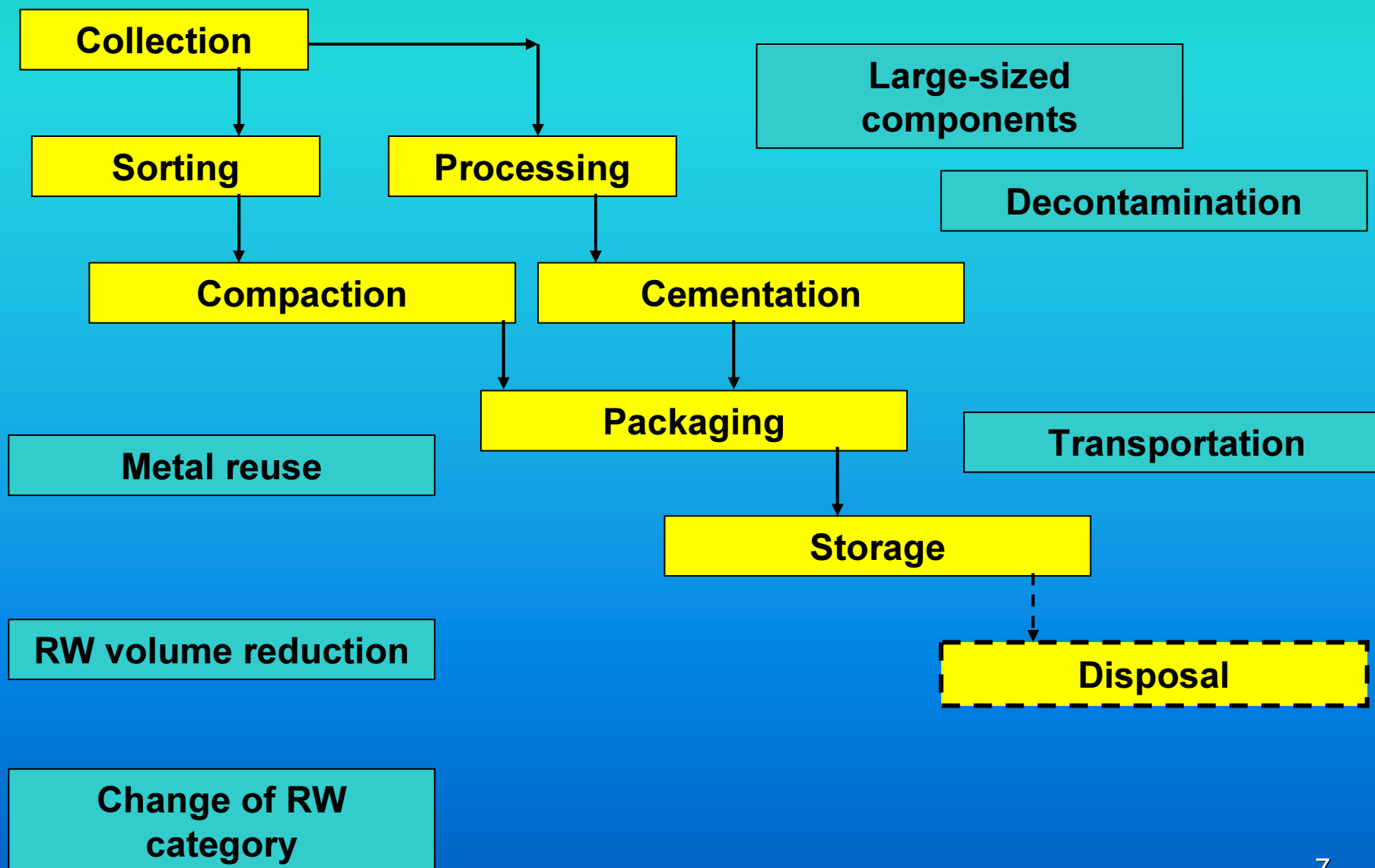


## Distribution of accumulated SRW by categories



## Distribution of accumulated LRW by categories





# Main categories of the waste under consideration

## Solid RW

High-level

Intermediate-  
and low-level

Very low-level  
(after introduction of this  
category)

## Liquid RW

High-level

Intermediate-  
and low-level

Complicated chemistry

## Main initial RW categories related to proposed handling methods

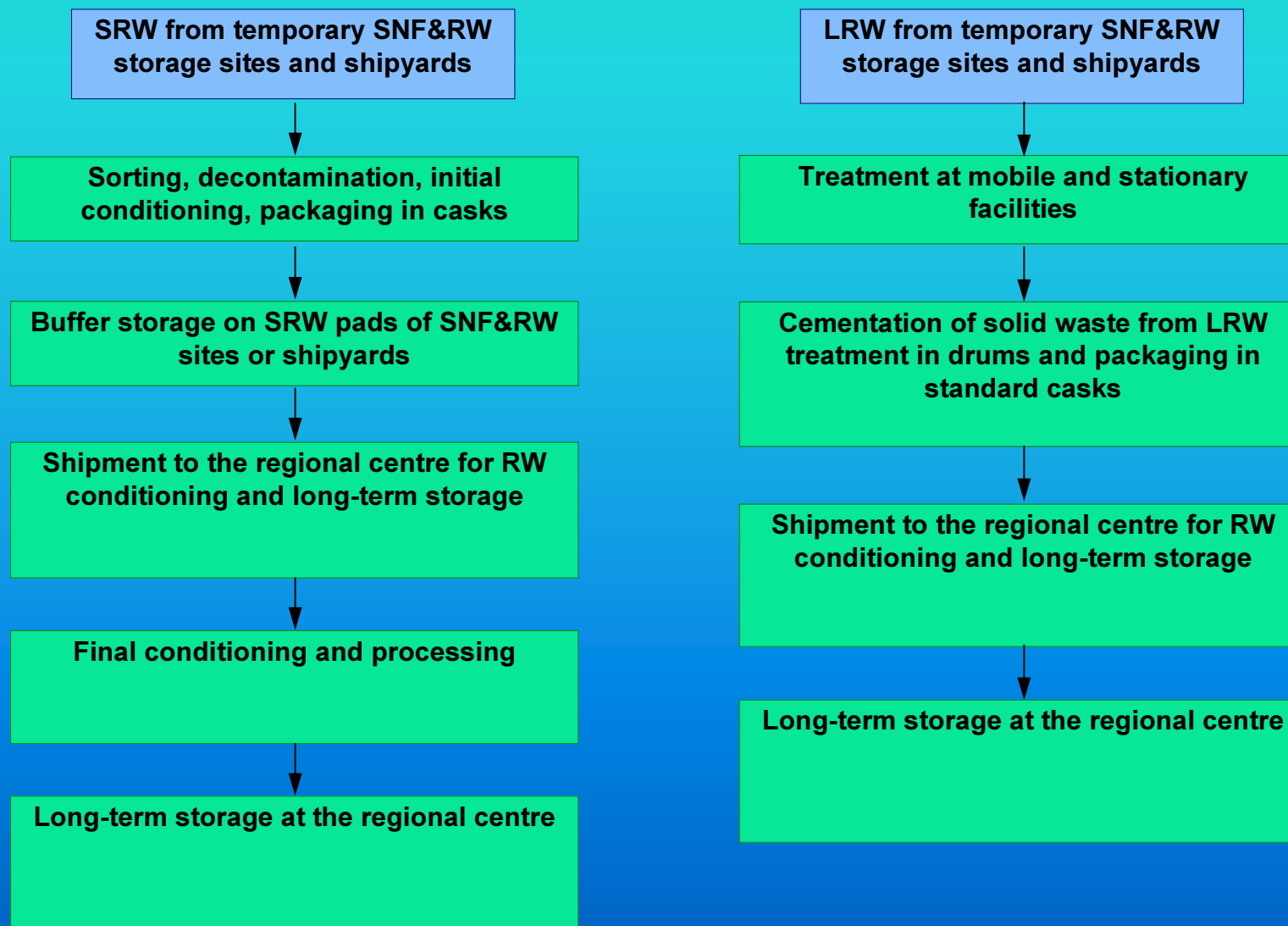
**High-level SRW**

**Intermediate-  
and low-level  
SRW**

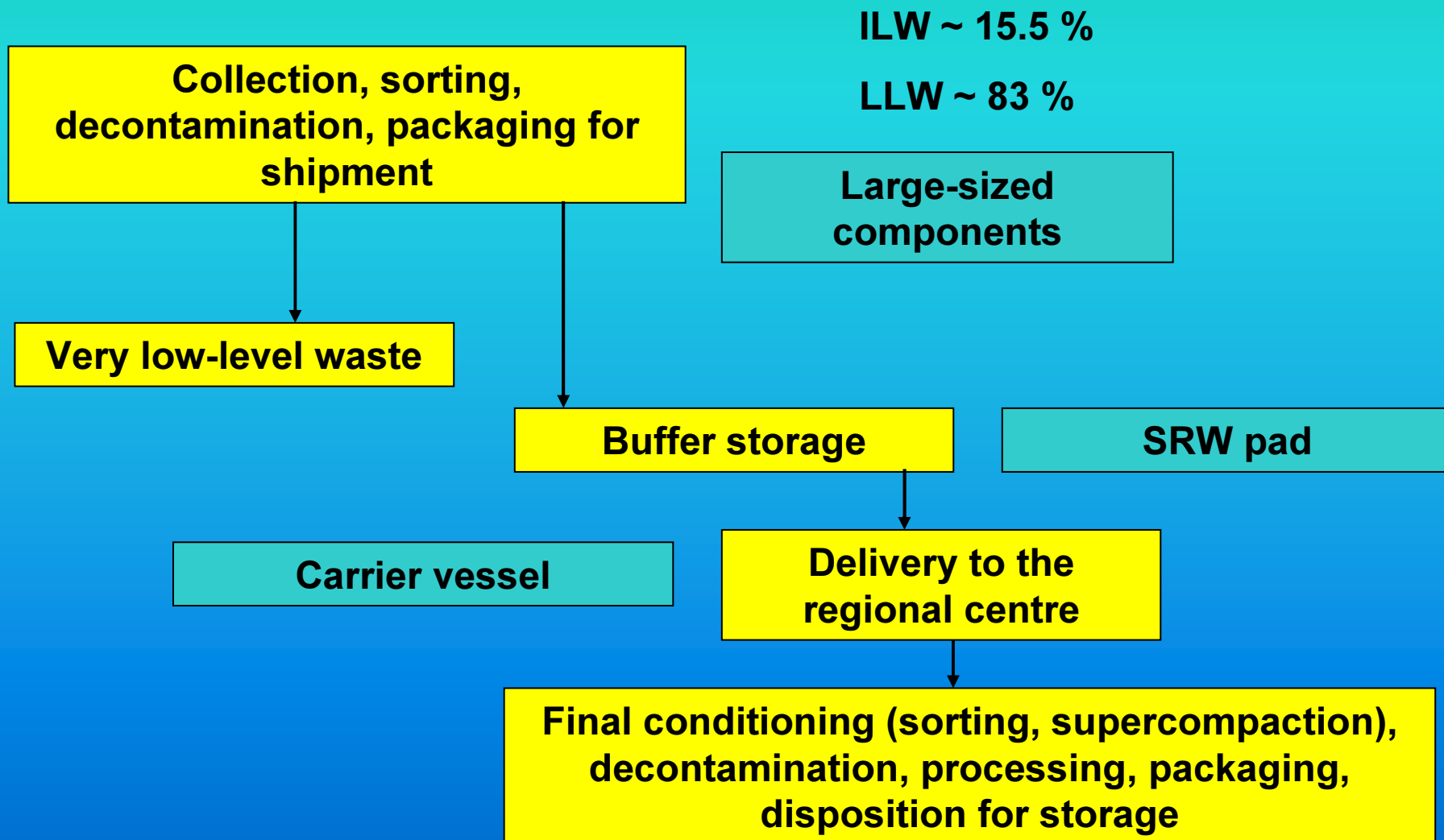
**Very low-level SRW  
(after introduction of this  
category)**

**Liquid RW**

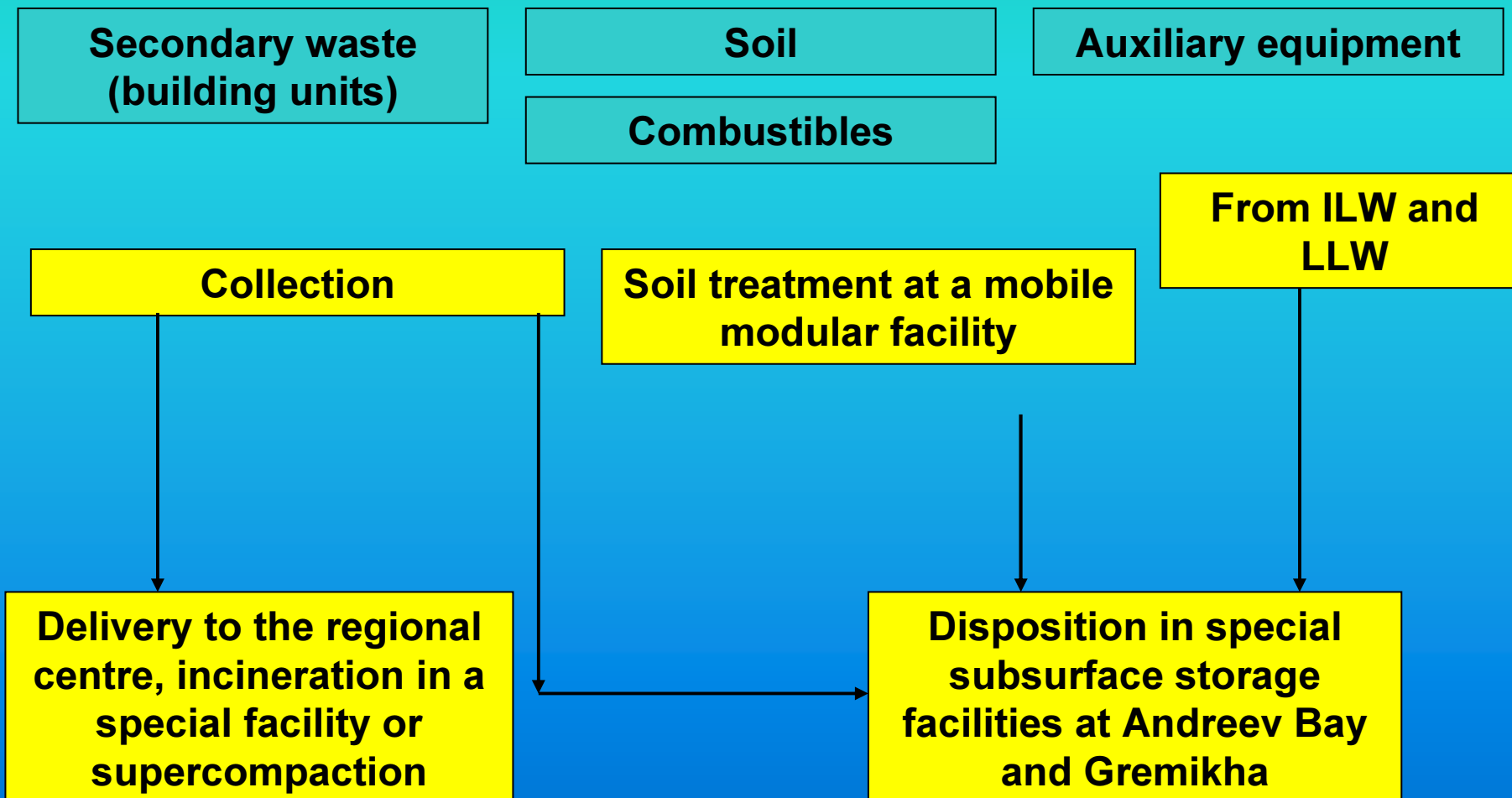
# Strategic approaches to SRW and LRW management in the North-West Region

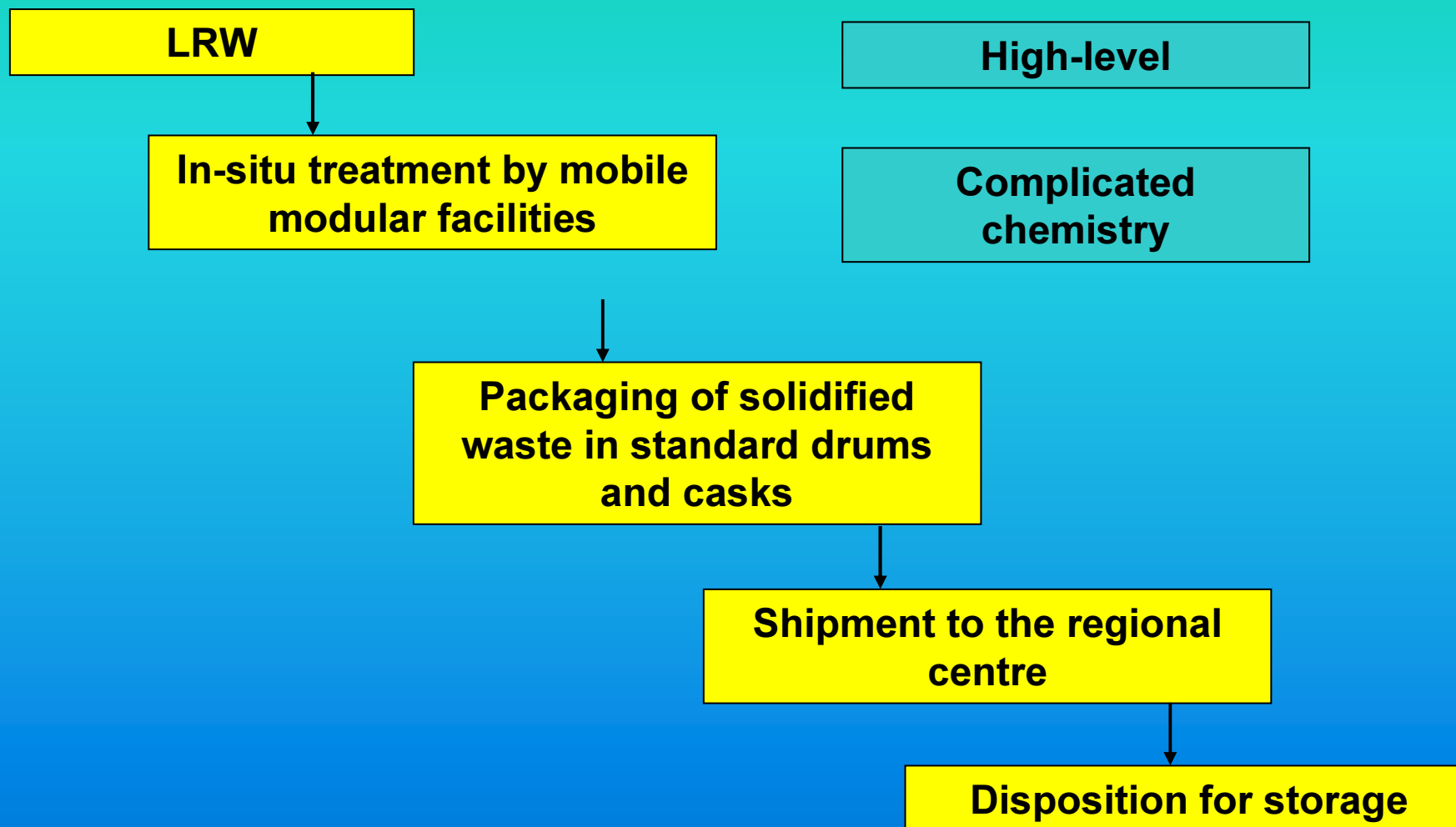


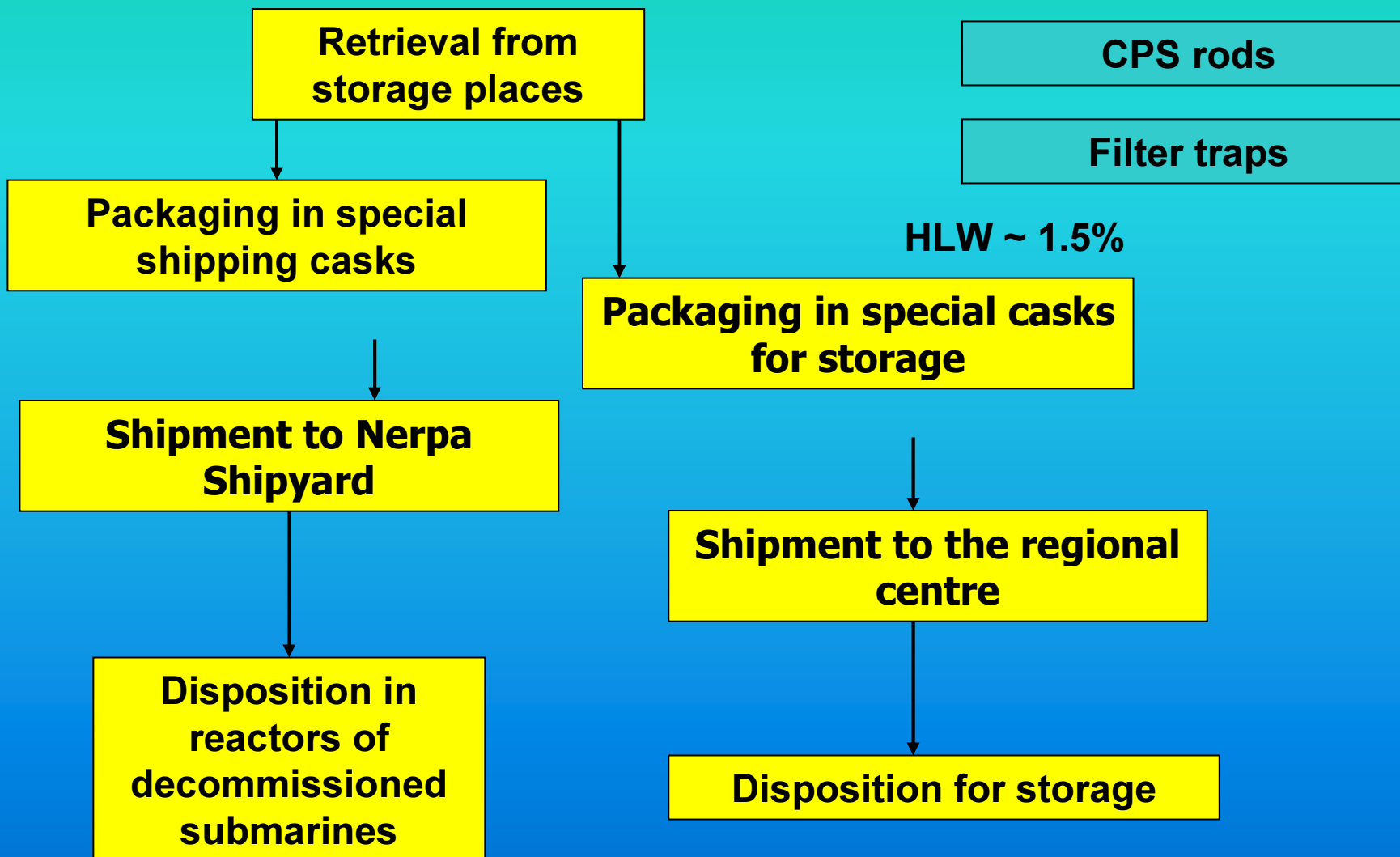
# Intermediate- and low-level SRW management



# Management of very low-level SRW (after introduction of this category)







- 1. The above approach provides for optimal use of the infrastructure available already or planned to be built.**
- 2. In-situ operation of mobile modular facilities will minimise the number of facilities to be built on the sites, which will subsequently have to be dismantled or subjected to remediation.**
- 3. In the cases unprovided for in the general handling and transport scheme, the radioactive waste will be dealt with under separate projects.**
- 4. The technical assignment on building the regional centre for RW conditioning and long-term storage should describe as much as possible the equipment and facilities to be provided.**
- 5. It is necessary to assess in technical and economic terms and to optimise the handling and transport options for RW delivery to the regional centre.**
- 6. The casks to be used in the handling and transport process should be clearly identified and unified, with the number of their types reduced to a minimum.**
- 7. All the basic engineering solutions for the RW management system should be adopted in consultation with NIKIET and should be approved by Rosatom to prevent uncoordinated actions and to have a common RW management policy pursued in the region.**