Retrieval of waste in trenches

- Generalities
- Description of the trenches area
- Important data
- Objectives
- Organisation
- Schedule
- Presentation of the work plant

Retrieval of waste in trenches

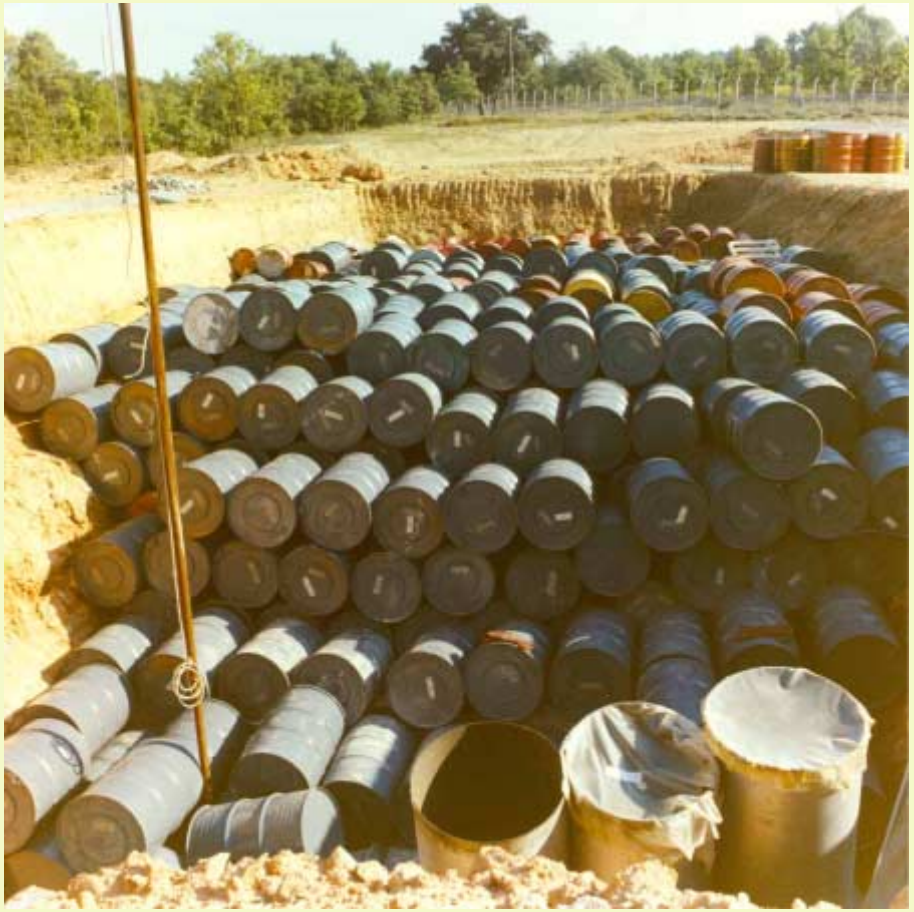
- Generalities

  – Creation of trenches, initially called « experimental storage » in 1969 to store low activity waste ;

  – The choice of the storage was published within the framework of IAEA ;

  – Radioactive waste was buried in 5 trenches between 1969 and 1974.

Filling of trenches



Waste in trenches

– 5 trenches :
  - ***3000 m^3 of radioactive waste***

– Categories of waste :
  - sludge wrapped or unwrapped,
  - metallic waste,
  - technological waste,
  - gravel, ground soil, resins, ashes,
  - glass, pipes, ventilation ducts.

– Packaging :
  - concrete shells of 1,2 m^3,
  - metallic 100 et 200 litres drums
  - Vinyl bags or vinyl wrapping

Important data

- Pilot worksite carried out in 1995 : retrieval of 15 m^3 of waste
- Feedback concerned :
  - Nature of waste
  - Resistance of packaging
  - Contamination of the ground soil surrounding the waste
- Feedback taken into account in the design of retrieval work site
- Authorization issued for the operaton of retrieval and sorting facilities given by french nuclear authority

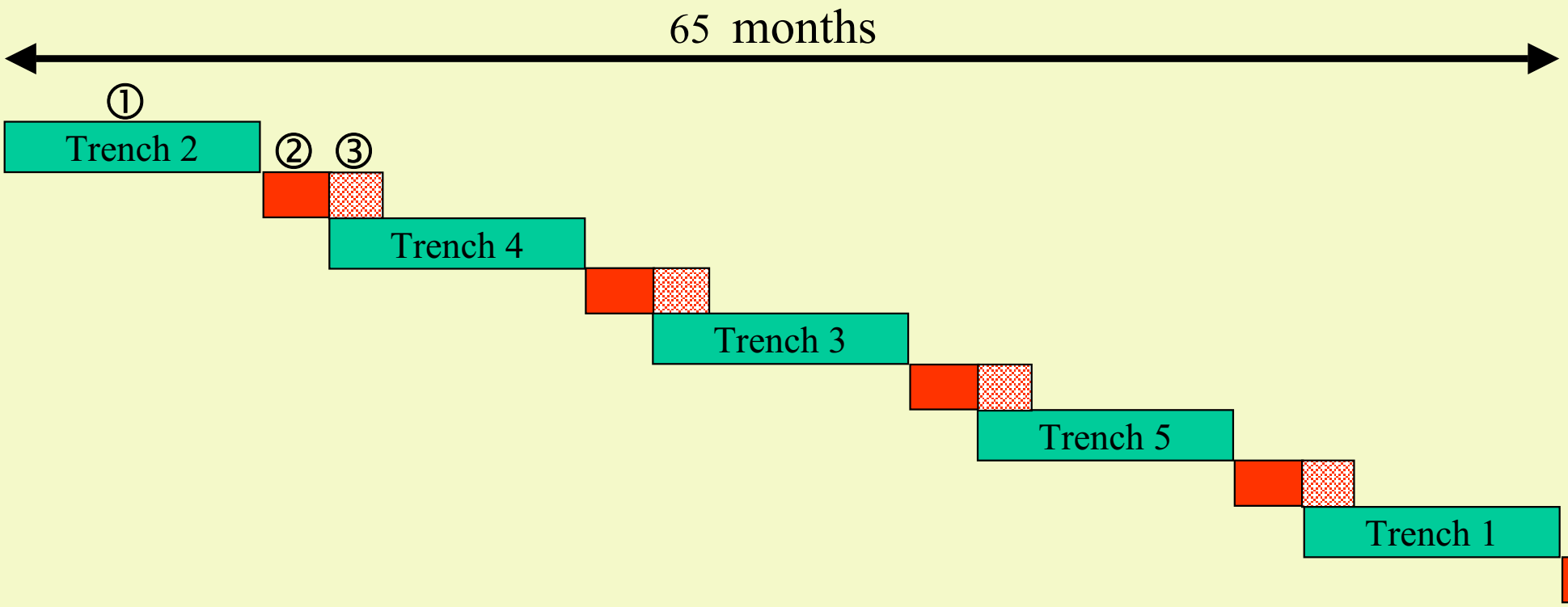
Objectives

- All the waste must be retrieved, sorted, processed, packaged to be stored at the ANDRA (French National Agency for radioactive waste) disposal facility or dtored under safety conditions before final disposal

- Restoration plan :

  Final cleaning of the site

Provisional schedule



① Retrieval of waste (9 months)

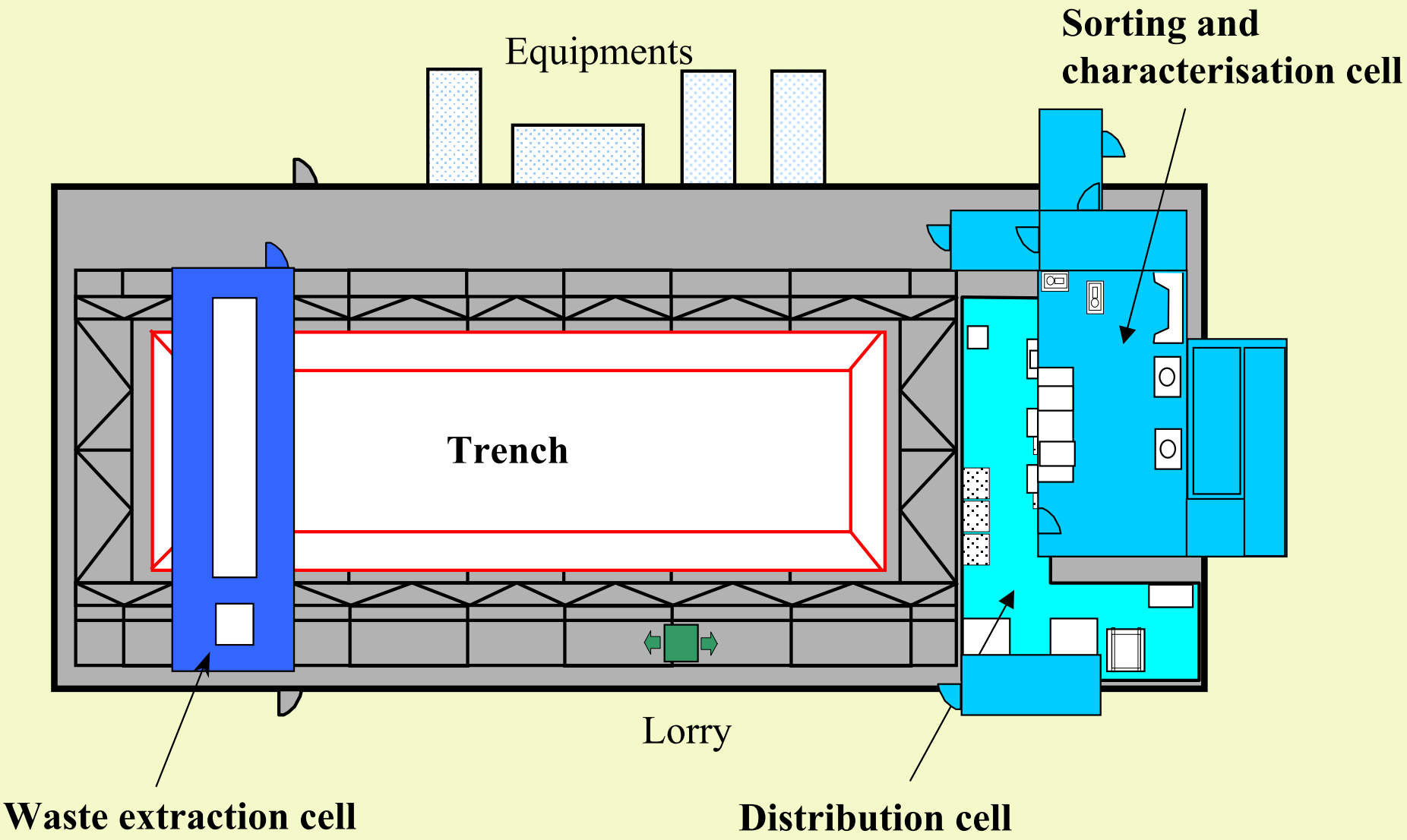
② Moving of the work plant (5 months)

③ Preparation of the next moving (2 months)

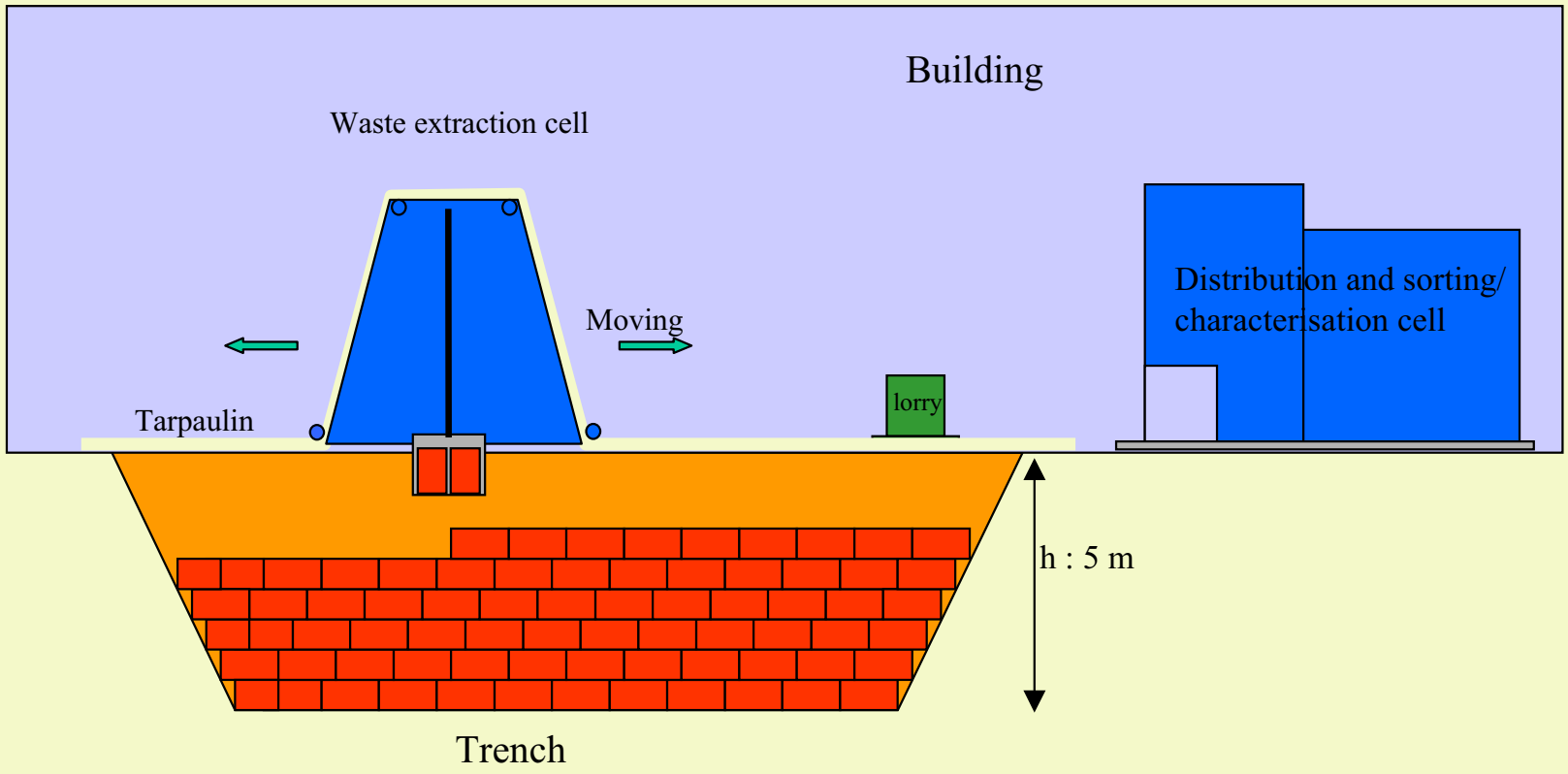
Description of the work site

- An operations building with can be assembled or disassembled, covering the trench in operation :
  - the waste extraction cell
  - the distribution cell
  - the sorting and characterisation cell
- A logistics building
  - locker rooms, offices
  - technical premises
- A buffer zone.

Operations building



Retrieval of waste



* Moving step
* Stratum

Distribution cell

Distribution cell

Waste basket

Waste introduction

Spectrometry chain

Sorting and characterisation cell

Sorting glove boxes

Introduction of waste in glove

Sorting

Packaging in vinyl bags