

**Initial condition of materials**



Coins adherent to each other in the form of a single block with thick layers of corrosion compounds



Parts of the small-size bronze statuettes with thick layers of rust and some fractures

## Aim of restoration work



Separation of coins and removal of layers of corrosion on the surface

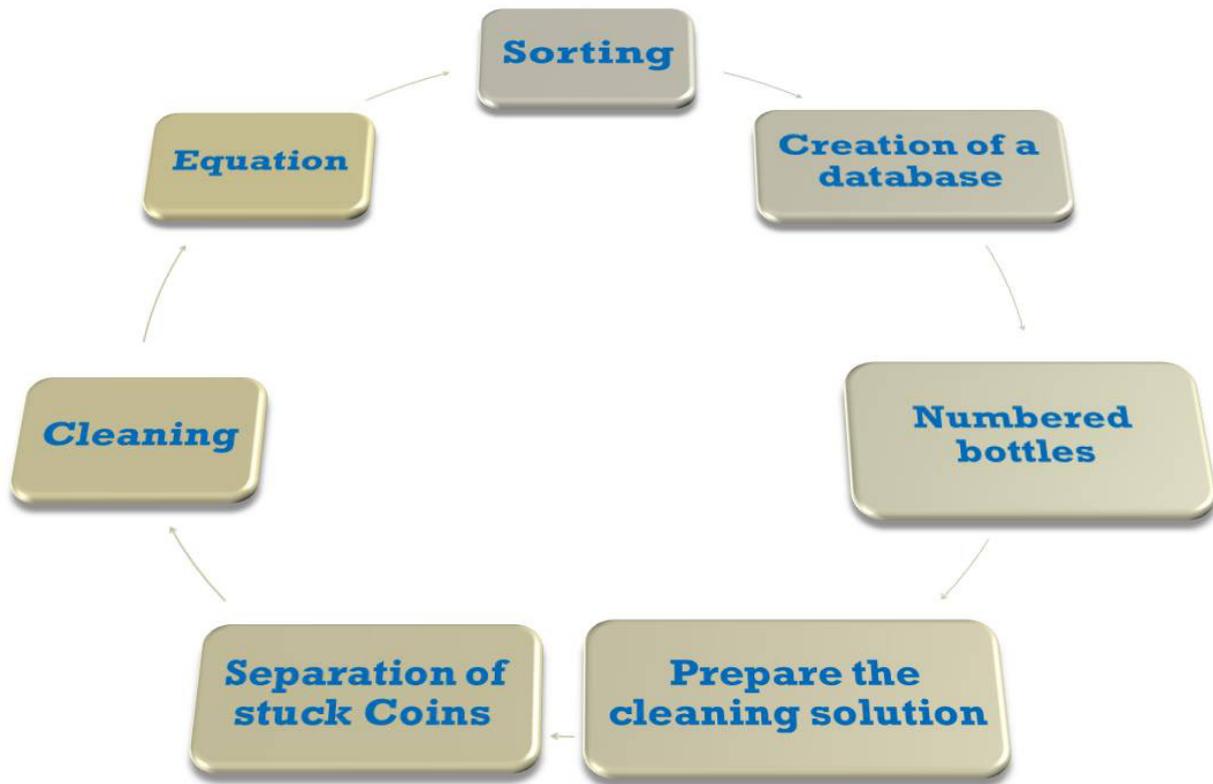
## Steps and materials



- Separation                      Amonium Bicarbonate  
   Concentration: 10%  
   Solvent: water  
   Application: electrical reduction cell
- First cleaning                      Formic Acid  
   Concentration: 1-5%  
   Solvent: water  
   Application: solution
- Second cleaning 2                      Citric Acid  
   Concentration: 1-5%

Solvent: water  
Application: solution

### Cleaning steps





Billon coins after restoration



Bronze statuette befor and after restorarian



Bronze statuette before and after restoration



Limestone statuette before and after restoration

### Work completed during mission 2012

- 113 coins from coin hoard, box 42.3
- 50 coins from coin hoard, box 42.2
- 13 coins from 2012 excavation
- 15 fragments of bronze statuettes
- 1 fragment of limestone statuette