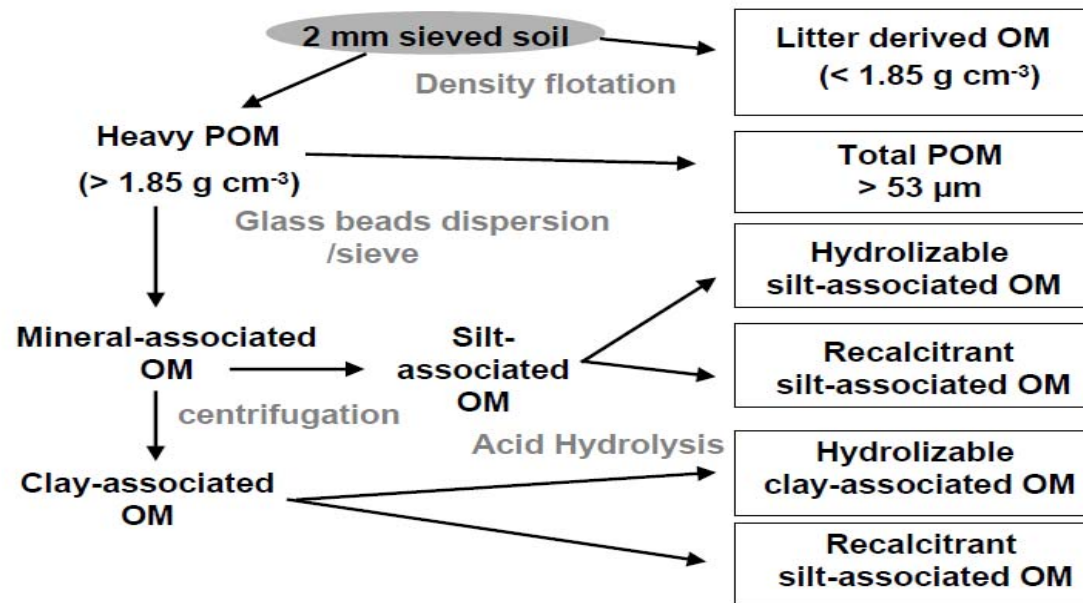


## Task 1.4.2

### Characterisation and quantification of soil N pools

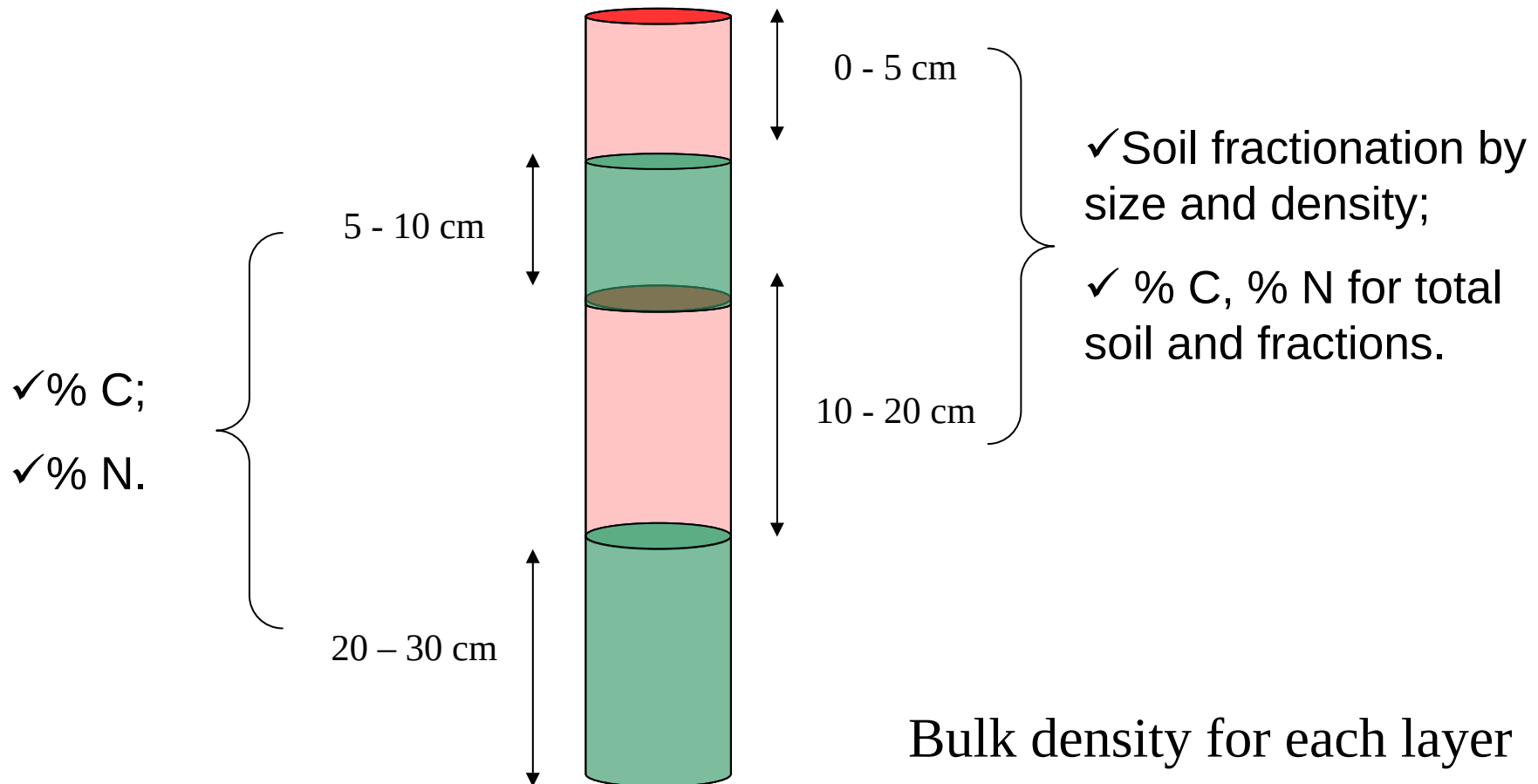
A. Venturi, F. Cotrufo, Nepales 2<sup>nd</sup> University, Italy



**Figure 1:** Schematic representation of the second SOM fractionation procedure that was used for this study.

# Measurements

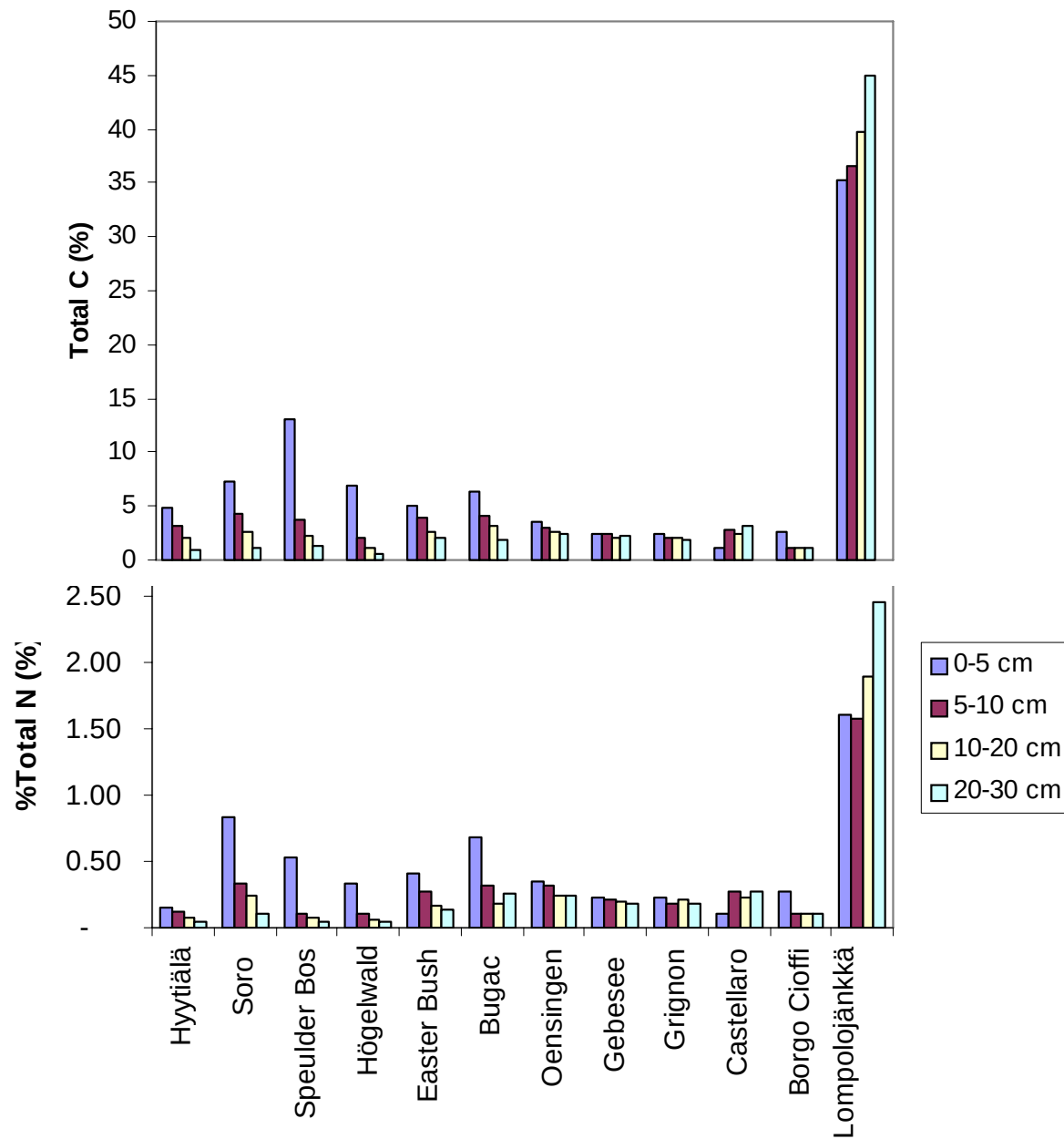
- ✓ Soil fractionation by size and density;
- ✓ Percentage of Carbon and Nitrogen for total soil (all depths) and fractions (0 – 5 cm; 10 – 20 cm).



# Example of the data

## A 1.4.2 Soil N Pools - (DEPTH 1, 0-5 cm: select appropriate worksheet to enter measurements)

|                                     | VARIABLE NAME          | Sample date<br>(dd/mm/yyyy) | Bulk density      | Total C | Total N |
|-------------------------------------|------------------------|-----------------------------|-------------------|---------|---------|
|                                     | UNITS                  |                             | g/cm <sup>3</sup> | %       | %       |
| NEU site level (if appropriate) and |                        |                             | MEAN              | MEAN    | MEAN    |
| C1L3                                | Hyytiälä               | 02/07/07                    | 0.43              | 4.78    | 0.15    |
|                                     | Soro                   | 01/12/04                    | 0.78              | 7.21    | 0.84    |
|                                     | Speulder Bos           | 27/04/07                    | 0.58              | 13.13   | 0.53    |
|                                     | Högelwald              | 24/04/07                    | 0.52              | 6.87    | 0.33    |
|                                     | Easter Bush            | 04/05/07                    | 0.75              | 5.12    | 0.41    |
|                                     | Bugac                  | 01/12/04                    | 1.36              | 6.43    | 0.68    |
|                                     | Oensingen              | 20/04/07                    | 0.85              | 3.63    | 0.35    |
|                                     | Gebesee                | 01/12/04                    | 1.10              | 2.36    | 0.22    |
|                                     | Grignon                | 01/12/04                    | 1.36              | 2.37    | 0.22    |
|                                     | Po Valley (Pavia)      | 20/03/09                    | 0.88              | 1.07    | 0.11    |
|                                     | Piana del Sele         | 14/03/07                    | 0.92              | 2.67    | 0.27    |
|                                     | Lompolojänkka (Pallas) | 26/06/07                    | 0.05              | 35.23   | 1.61    |



*Task 1.4.2 Characterisation and quantification of soil N pools*

# Bulk density in the 4 soil depth

