

The French business registers system :

How to improve the quality of the statistics by combining different statistical units

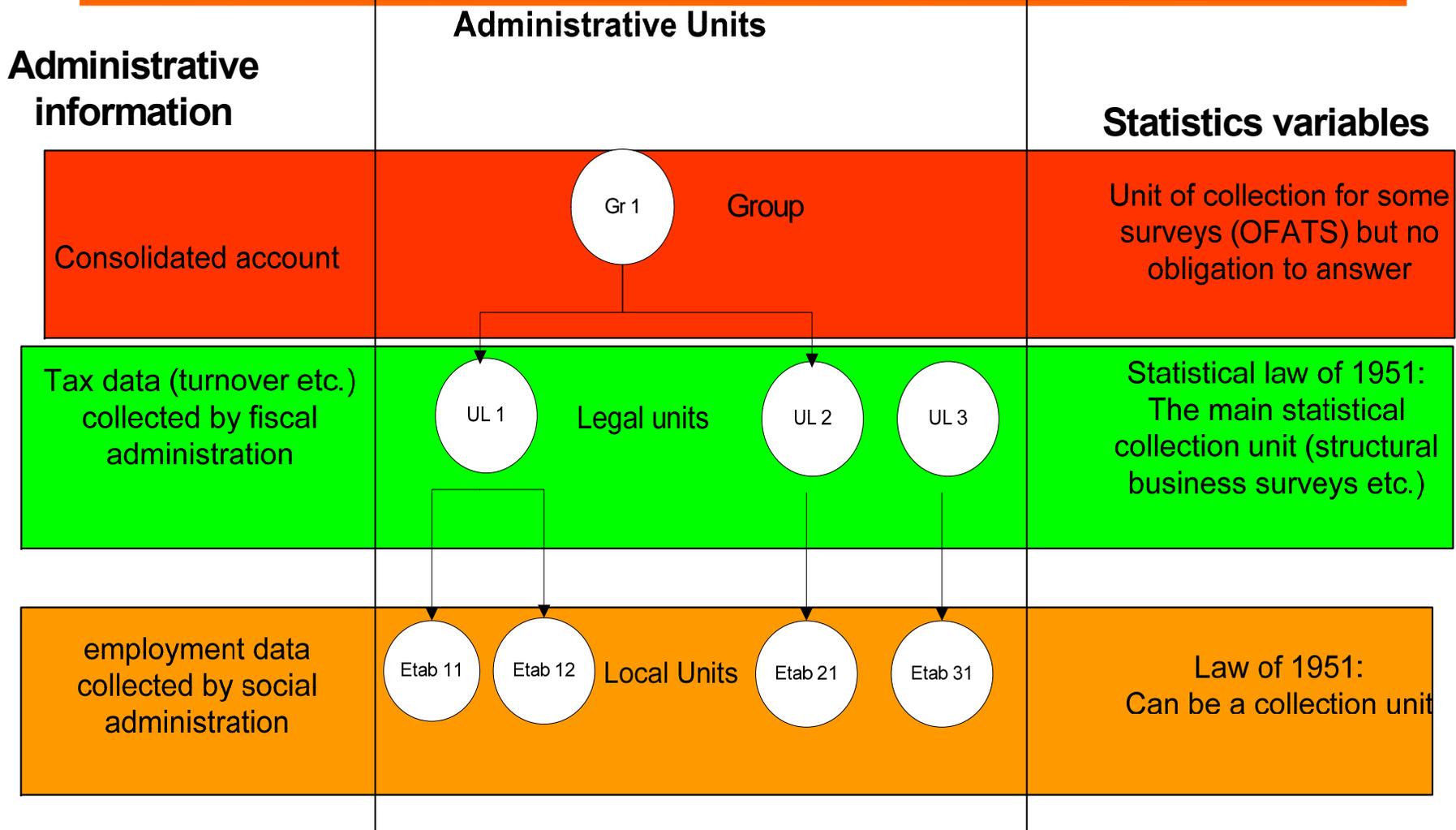
Haag Olivier



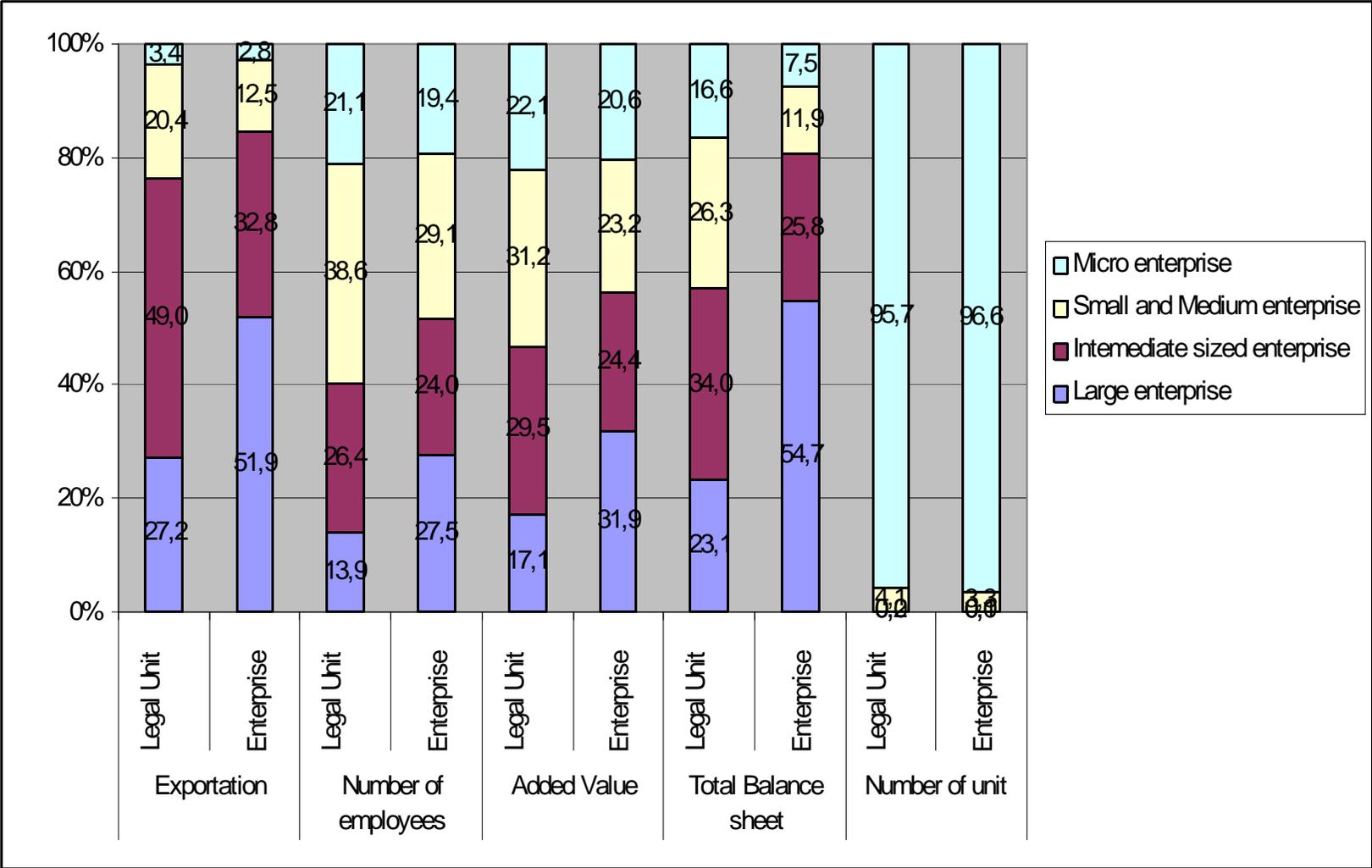
Outlines of the presentation

1. What are we talking about?
2. The definition of the French enterprise
3. Data collection units \neq reporting unit : the consequences for the frame and the surveys
4. Presentation of the French network of Business Registers
5. New characteristics to improve the Quality of the frames

What are we talking about? (1/3)



What are we talking about? (2/3)



The legal units are not sufficient today to provide good quality business statistics : profiling is necessary

What are we talking about? (3/3)

Observation : we need different statistical units to calculate the most consistent statistics possible

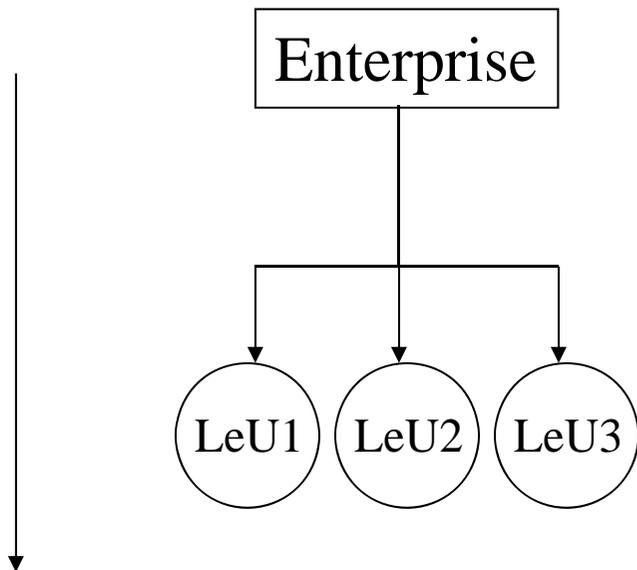
Problem : the information is often at the legal unit level

Solution : Have a data collection unit different from the unit of interest
Set up consolidation method

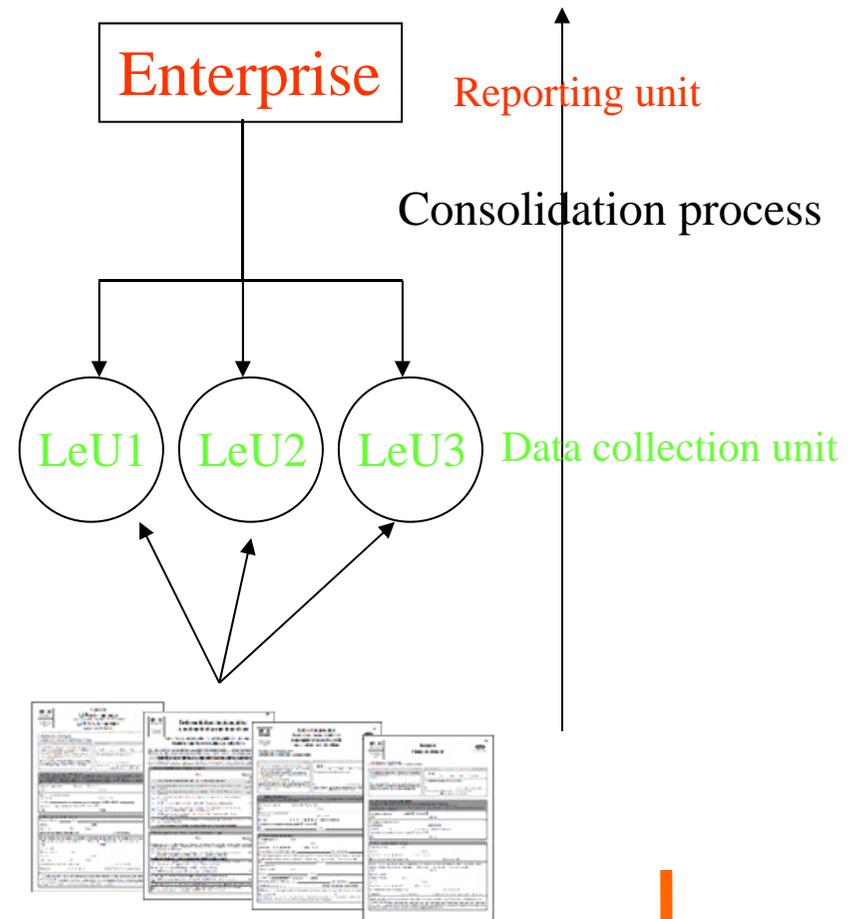
Necessity : Adapt the business register. It must handle different statistical units and their links to provide different kinds of frame

Definition of the French enterprise (Profiling)

A top down approach for the delineation



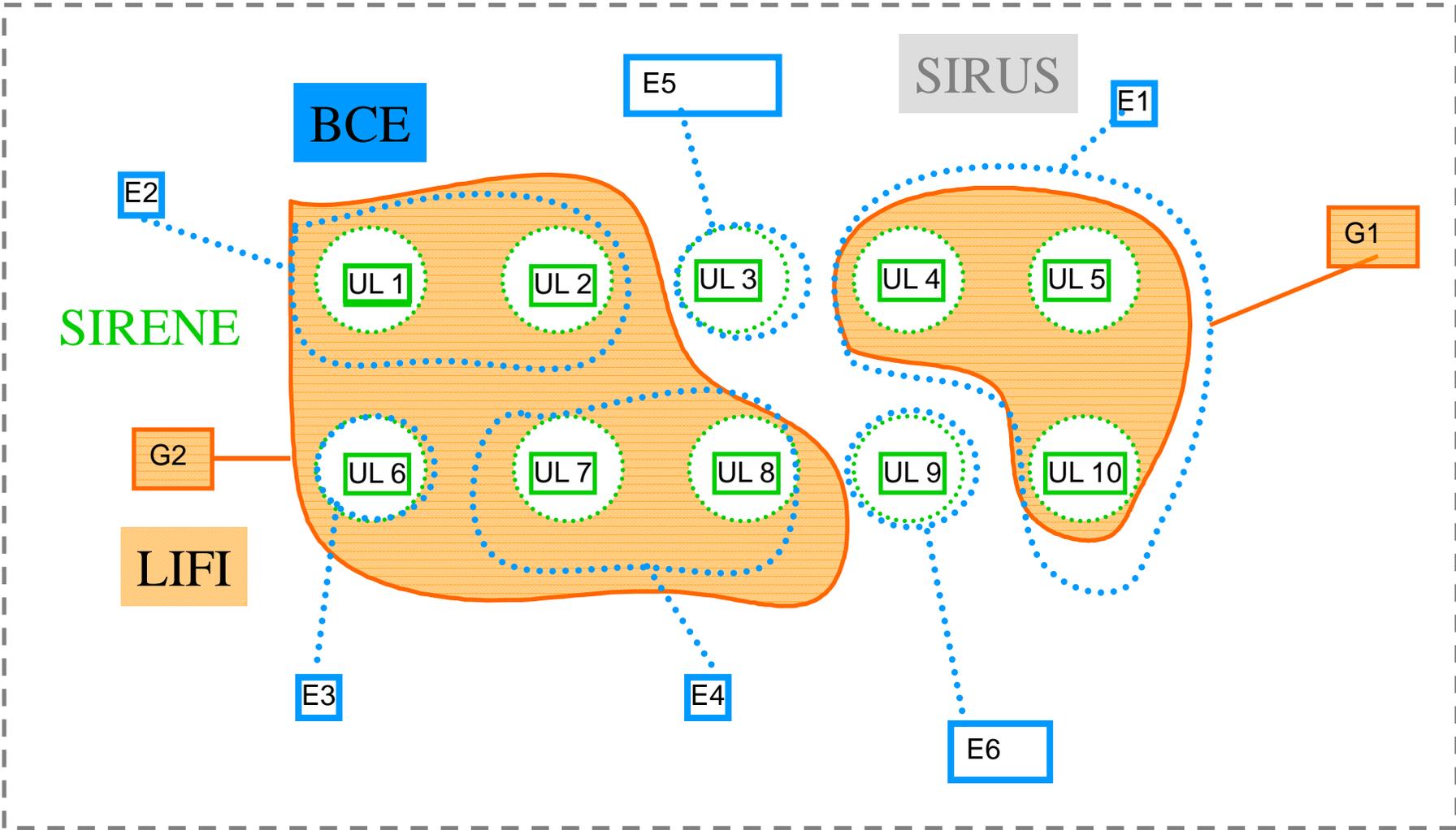
A bottom up approach to obtain the data



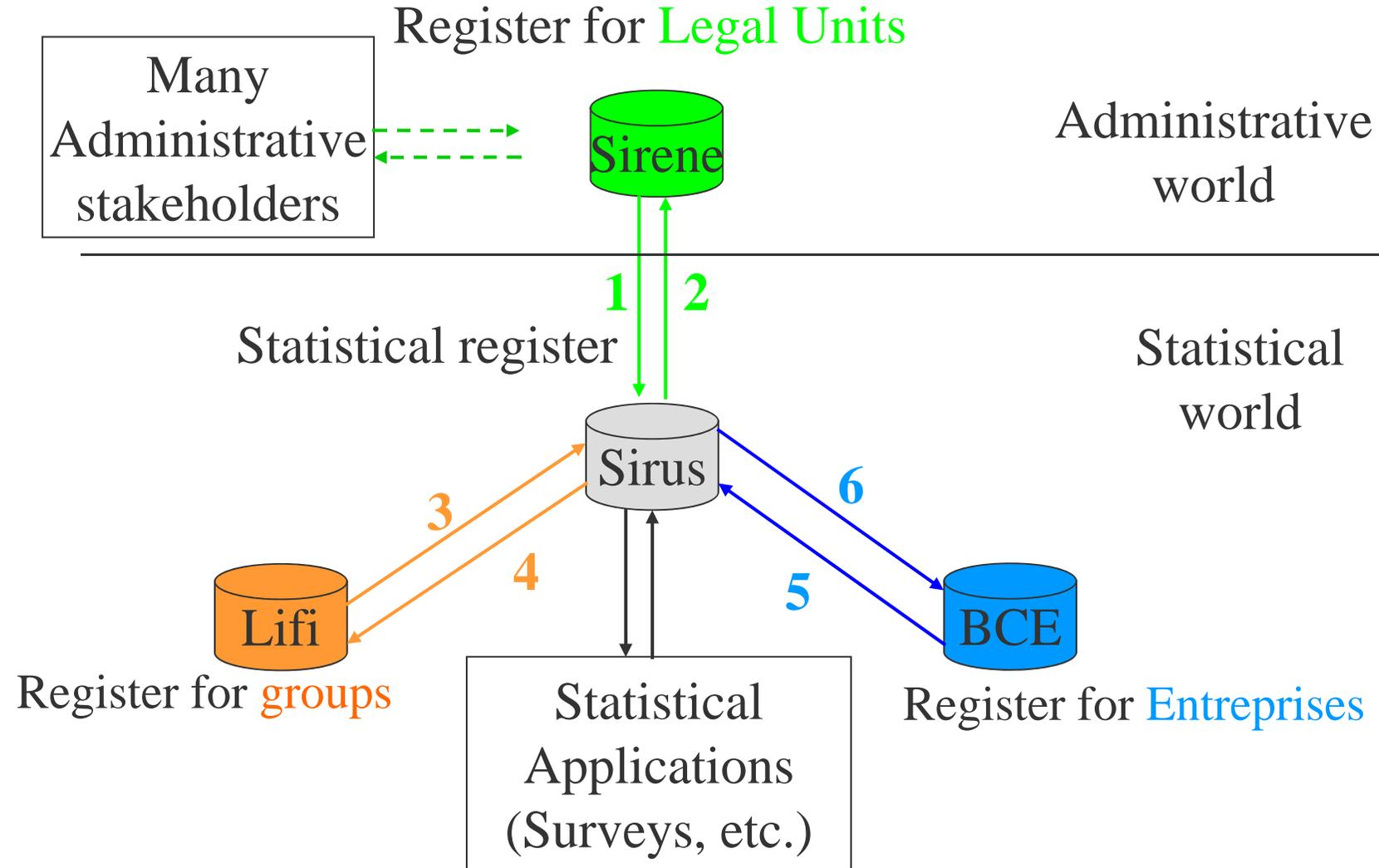
Data collection ≠ reporting unit

- 2 frames are necessary
- two-stage cluster sampling
- optimize the survey design in order to have the best precision on estimators possible at the enterprise level under the constraint of a limited number of collection units
- A new definition of the take-all strata
- a cut off of legal units achieving 95% of the turnover within each exhaustive enterprise
- A new method of data editing

Presentation of the French Business register network



The links between the registers



The Assets of SIRUS

- Contains all the statistical units and their links
- Contains new variables to improve quality
 - The statistical cessation of activity
 - The measure of the statistical burden (useful for sampling negative coordination). We know that :
 - A business has been sampled n times during the past year
 - A business spent n hours on filling statistical questionnaires
 - Data available for each kind of units (local units, legal units, enterprises, groups)
 - Register the continuity of the enterprises
- Contains meta-data
 - All data are dated
 - All treatments are dated
 - All sources of update are recorded

⇒allow to have better frame

Conclusion

- Statisticians must deal with 2 main challenges and the BR help them to:
 - have more relevant information about the globalisation
 - BR stores information about different kinds of units (enterprises, group, legal unit...) and their links
 - BR allows to create different kinds of frame according to the survey's subject
 - reduce the statistical burden
 - BR stores an unique ID or the links between IDs (micro data linking)
 - BR stores information about the statistical burden
- The French solution: Profiling
 - Unit of data collection (legal Unit) # unit of interest (Enterprise)
 - BR is the backbone of the system

Thanks for your attention !

Contact
M. Olivier Haag
Courriel : olivier.haag@insee.fr

Insee

18 bd Adolphe-Pinard
75675 Paris Cedex 14

www.insee.fr  

Informations statistiques :
www.insee.fr / Contacter l'Insee
09 72 72 4000
(coût d'un appel local)
du lundi au vendredi de 9h00 à 17h00