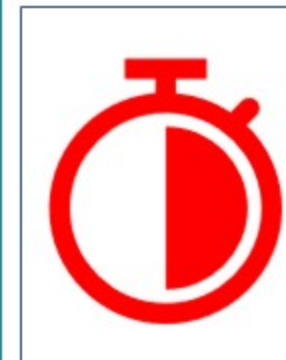



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The path towards the Sustainable Development Goals set by Agenda 2030, given the now short time horizon of reference, highlights challenges requiring **Innovations** in Data Modelling – Production - Management - Interpretation.




**Critical Aspect:** Items linked to «Sustainability» are multiple and mutually interconnected

**Needs:** 1. **Multidimensional** and **Multidisciplinary** approach to ensure a **Systemic Vision** of **Related Phenomena**;  
2. Objective evaluation, as impartial as possible, of their associated impacts, at each **public and private decision-making level and dimension**: Institutional, Public and Private, Individual, Small and Large Businesses,....

**Benefits:** To recognize and avoid **misleading green-blue-....washing phenomena**; to **effectively and efficiently** converge on the whole system of intermediate and interrelated targets.


**Ref.:** - Paola Casciotti «A comparison between sustainability frameworks: an integrated reading through ESG Criteria for Business Strategies and Enterprise Risk management», (FEEM, Milan-2023) ISSN: 2037-1209; SSRN: 4594401.  
- Internal project documents of the same author.



Relevance of ESG Criteria, derived from Sustainable Finance, for:

I. **Developing Systemic Analysis** of multidimensional aspects of Sustainability, mostly expressed in individual frameworks used at Global, Macro and Micro levels.


II. III. Building **Integrated Statistics** and **Impact Studies** about **Inside/Out** and **Outside/In** Perspectives, net of deviant greenwashing phenomena



## LEVELS CONSIDERED FOR A SYSTEMIC VISION

### I. FROM GLOBAL TO MACRO AND MICRO «PLAYING FIELDS»

Comparative study of main Institutional Frameworks and Enterprises reporting ones, concerning the multiple and complex dimensions of Sustainability.



**Global Goals**

**Macroeconomic Policies**  
Targets and Public Finance


**MicroEconomics**  
Business Targets (Large Companies, Subsidiaries, PMI, Small Firms, ....)

**MAIN FRAMEWORKS CONSIDERED FROM AN ESG CRITERIA PERSPECTIVE (SUSTAINABLE FINANCE)**

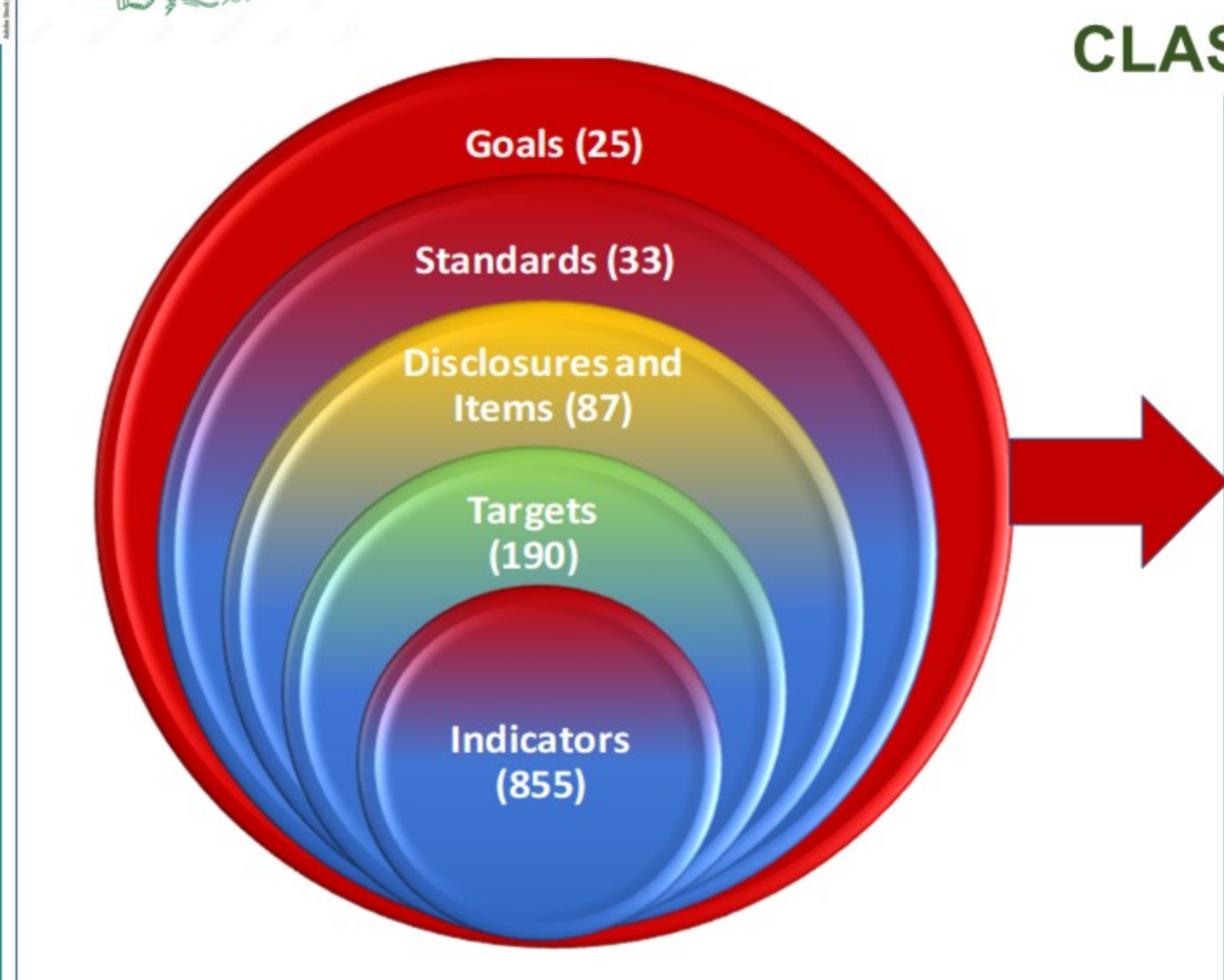
|             | Goals | Targets | Domains | Missions | Components | Measures | Sub Measures | Standards | Items | Indicators |
|-------------|-------|---------|---------|----------|------------|----------|--------------|-----------|-------|------------|
| MDGs (2015) | 8     | 21      |         |          |            |          |              |           |       | 60         |
| SDGs (2030) | 17    | 169     |         |          |            |          |              |           |       | 247        |
| BES         |       |         | 12      |          |            |          |              |           |       | 152        |
| PNRR        |       |         |         | X        | XX         | XXX      | XXX          |           |       | XX         |
| GRI*        |       |         |         |          |            |          |              | 33        | 87    | 395        |

\* 200-300-400

**Environmental - Social - Governance CRITERIA**



## II. DEFINITION OF SPECIFIC PARTITIONS AND CLASSIFICATION OF FRAMEWORKS' COMPONENTS CONSIDERED ACCORDING TO ESG CRITERIA – FIRST RESULTS



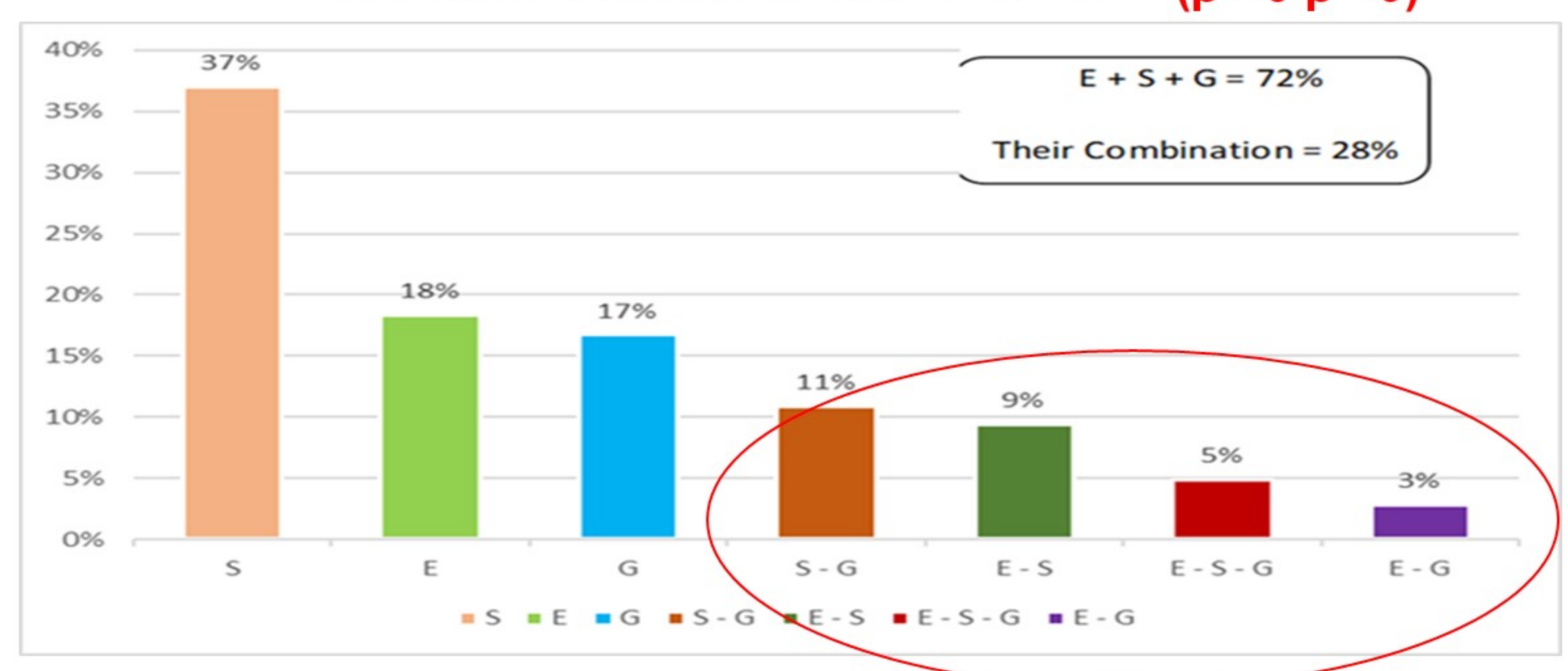
**CLASSIFICATION CRITERIA APPLIED**

**ENVIRONMENTAL SOCIAL GOVERNANCE CRITERIA**

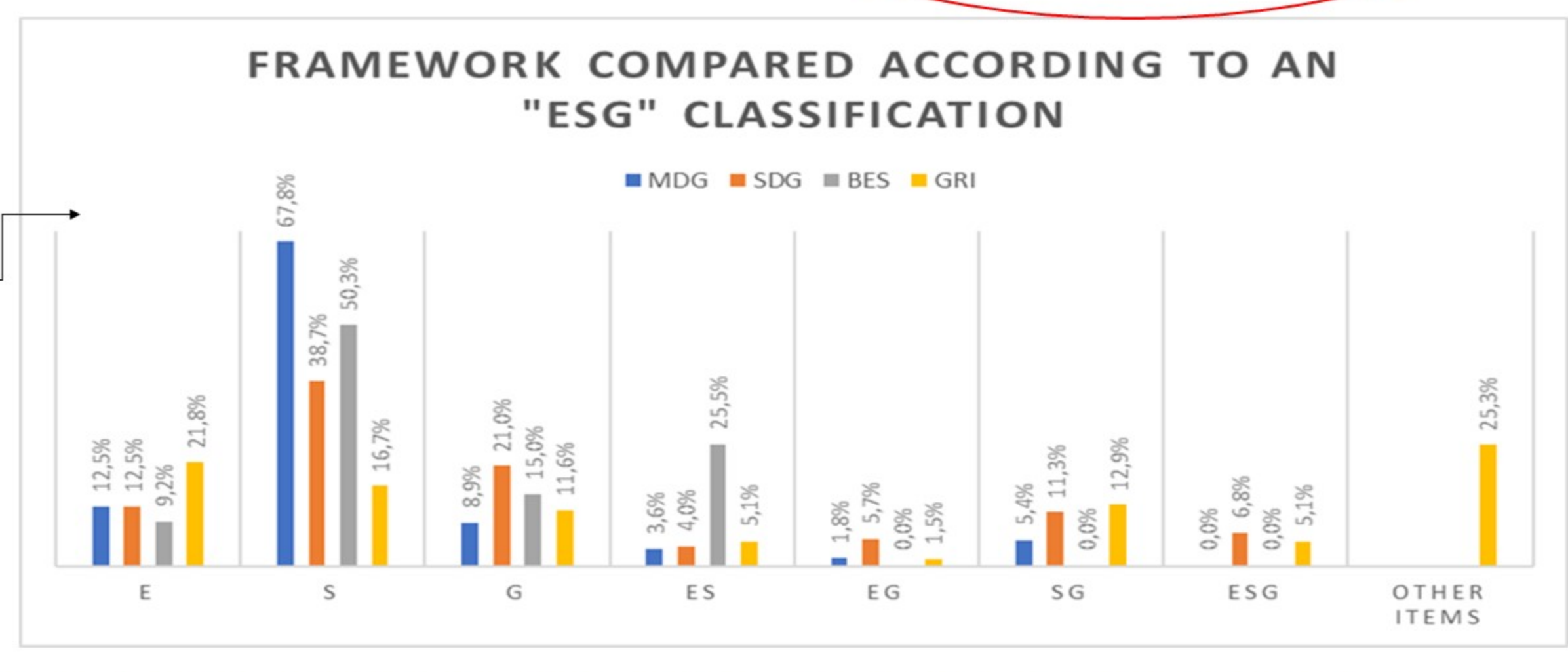
E - S - G  
ES - EG - SG  
ESG

**ESTIMATION OF WEIGHTS AND CORRELATED ITEMS IN FRAMEWORKS CONSIDERED ( $p > 0$   $p < 0$ )**

E + S + G = 72%  
Their Combination = 28%



**FRAMEWORK COMPARED ACCORDING TO AN "ESG" CLASSIFICATION**



TOTAL INDICATORS ANALYSED 855  
INDICATORS EXCLUDED 100  
TOTAL OF INDICATORS "PROCESSED" 755

ESG Criteria application to Data Mapping and Classification, for producing Integrated Statistics about Sustainability.

Indicators' weights according to the proposed classification, ESG based (% values)

|     | E  | S  | G  | ES | EG | SG | ESG | Tot. | of which |
|-----|----|----|----|----|----|----|-----|------|----------|
| MDG | 13 | 67 | 9  | 4  | 2  | 5  | 0   | 100% | 11%      |
| SDG | 12 | 39 | 21 | 4  | 6  | 11 | 7   | 100% | 28%      |
| BES | 9  | 50 | 15 | 26 | 0  | 0  | 0   | 100% | 26%      |
| GRI | 29 | 22 | 16 | 7  | 2  | 17 | 7   | 100% | 33%      |

The method is replicable for other frameworks

Ref.: - Paola Casciotti «A comparison between sustainability frameworks: an integrated reading through ESG Criteria for Business Strategies and Enterprise Risk Management», ISSN: 2037-1209; SSRN: 4594401.

## III. APPLYING THE ABOVE EXPERIMENTAL CLASSIFICATION ESG-based.

### Proposal and Work in Progress

### FROM DECISION MAKING TO FINAL DISCLOSURES IN EACH «PLAYING FIELD»

**HOW TO GOVERN COMPLEXITY AND MULTI-DIMENSIONAL DATASETS FROM DIFFERENT SOURCES PRODUCED FOR DIFFERENT AIMS ?**

→ **Classification** proposed, based on individual E-S-G- Criteria and on their possible Combinations ES-EG-SG-ESG highlights Interesting areas of correlation ( $>0$ ;  $<0$ ) or combination between main sustainability drivers.

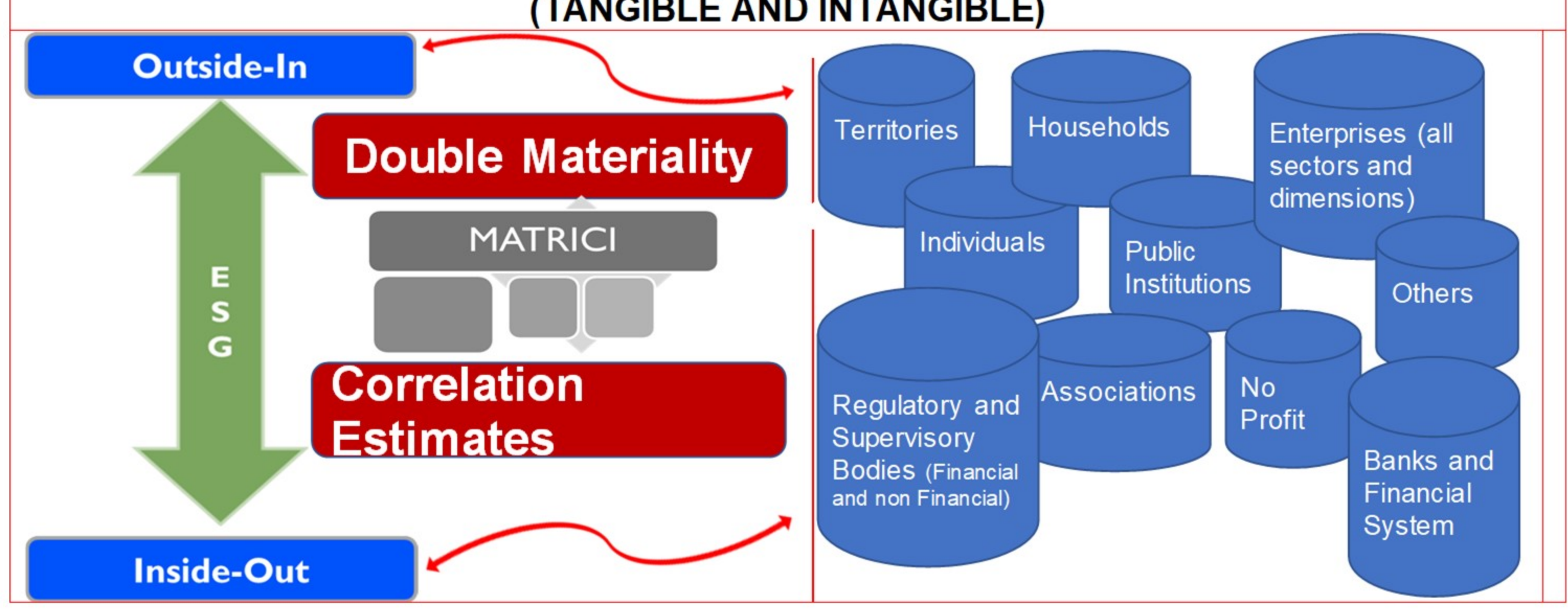
→ **Mapping** of Available Variables and their Sources

→ Development of Internal (Econometric) **Model** and **GAP Analysis**

→ **Data Integration** and **Interoperability** for Bi-Directional Impacts

→ Challenge: to estimate **Correlation Matrices** of Sustainability drivers (financial and non financial); to integrate new **Data** and **Metrics** at institutional level.

**ENVIRONMENT - SOCIETY AND SOCIAL ASPECTS - GOVERNANCE - PUBLIC AND PRIVATE FINANCIAL BALANCES - ASSETS AND CAPITAL ALLOCATION (TANGIBLE AND INTANGIBLE)**



Ref.: - Internal Project Documents concerning «CE.9704 - ESG Criteria for Integrated Development of Statistics on Sustainability»

«SUSTAINABLE DATA» (and Tools) FOR SUSTAINABLE DEVELOPMENT BY DESIGNING A DEDICATED AND SUITABLE DATA ECOSYSTEM