





Biomedical Scientists: Leaders in Sustainable Change

From Education to Reality



17 SUSTAINABLE DEVELOPMENT GOALS



The Biomedical Scientist in Sustainability



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



17 PARTNERSHIPS FOR THE GOALS



Common Issues

- Staff shortages
- The aging population
- Climate change: Consequent health impact
- Absence of Sustainability integrated into education
- Unnecessary testing
- Lack of effective waste management



Sustainable development in Laboratories: The **My Green Lab Initiative**

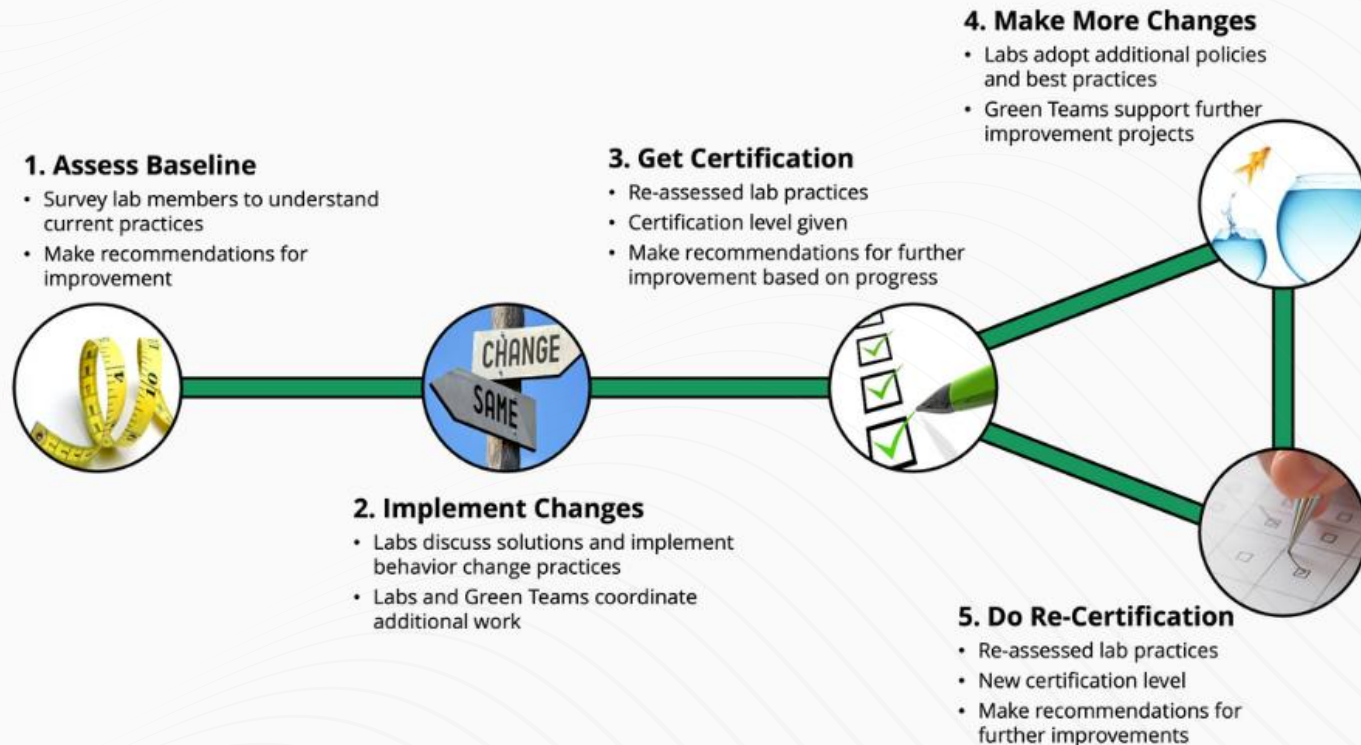


Even the smallest things make an impact!



HOW TO BECOME CERTIFIED

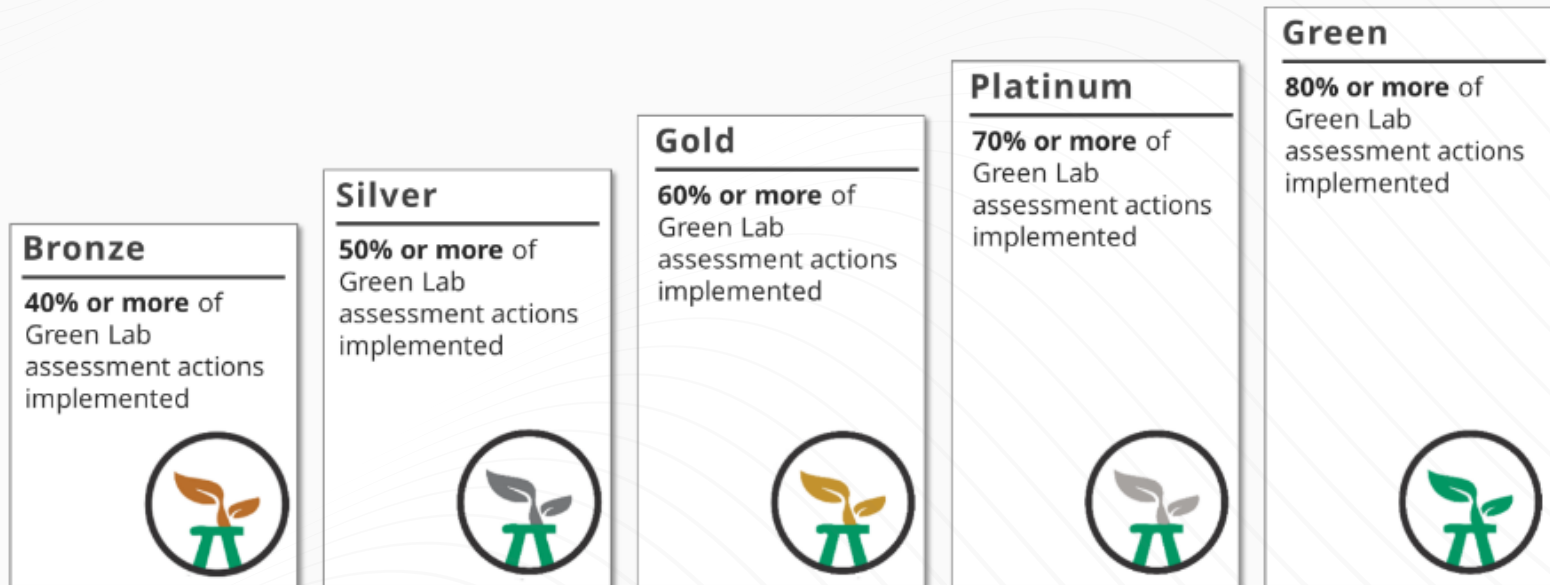
Whether you are a lab manager, graduate student, postdoc, scientist, sustainability program manager, R&D leader, energy manager, or anyone else who works in or supports labs— we can help you on your journey towards a more sustainable laboratory. My Green Lab Certification program is designed to give laboratories actionable ways to improve their environmental performance through a continuous improvement process



The Possibility for **Development**

CERTIFICATION LEVELS

There are five levels of certification: bronze, silver, gold, platinum, and green. The level of certification is determined by the score on the certification assessment. It reflects both-- the percentage of possible green lab best practices that have been adopted and the extent to which they have been adopted by the lab. Rather than requiring labs to complete a discrete set of activities to achieve each level, we allow them to focus on what they can change at that time and achieve higher levels of certification as they are able to adopt more and more best practices.



The Possibility for **Development**

The Certification Process

TOPICS COVERED

The My Green Lab Certification program covers 14 topics including energy, water, waste, chemistry/materials, and engagement.



Community



Recycling &
Waste Reduction



Resource
Management



Purchasing



Green Chemistry
& Green Biologics



Water



Plug Load



Fume Hoods



Cold Storage



Large Equipment



Infrastructure
Energy



Field Work



Animal Research



Travel





SOME OF THE EFFORTS AT SUSTAINABLE DEVELOPMENT IN LABORATORIES



01 Fume hoods



Account for 40-50% of total energy consumption in labs

Shut the sash stickers next to the closing device on the fume hoods to ensure they are in the lowest state of operation when leaving the lab

02 Ultra-Low Freezers



Use around as much energy as an average household each day

Increase the temp from -80 to -70 degrees

The freezer challenge encourages scientists to clean vents, check seals and remove ice so that freezers are working at maximum capacity.

03 Enzymes



Bio-catalysis: Use enzymes instead of finite metals or harsh acids to catalyze reactions

Enzymes are reusable

Reduce volume of solvents or replace them with environmentally friendly solvents

06 Transport



Coordinating orders from suppliers by means of a database or list to reduce transportation costs and emissions

05 Single Use Plastics



Researchers are encouraged to switch from single-use plastic to glass/reusable plastic and share reagents and materials with other laboratories before discarding them

04 Power Off



The last person to leave the lab should check that all equipment and processes are turned off at the end of the day

WHAT CHALLENGES LIE AHEAD OF OUR PROFESSION AND WHAT MUST WE DO TO LEAD THE CHANGE



EPBS – Go Green!

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Biomedical scientists

essential players in all healthcare decisions *saving lives*



Our organisation



Membership



Students



The profession



BLS Academy



Events

EPBS represents more than 250 000 Biomedical Scientists in Europe

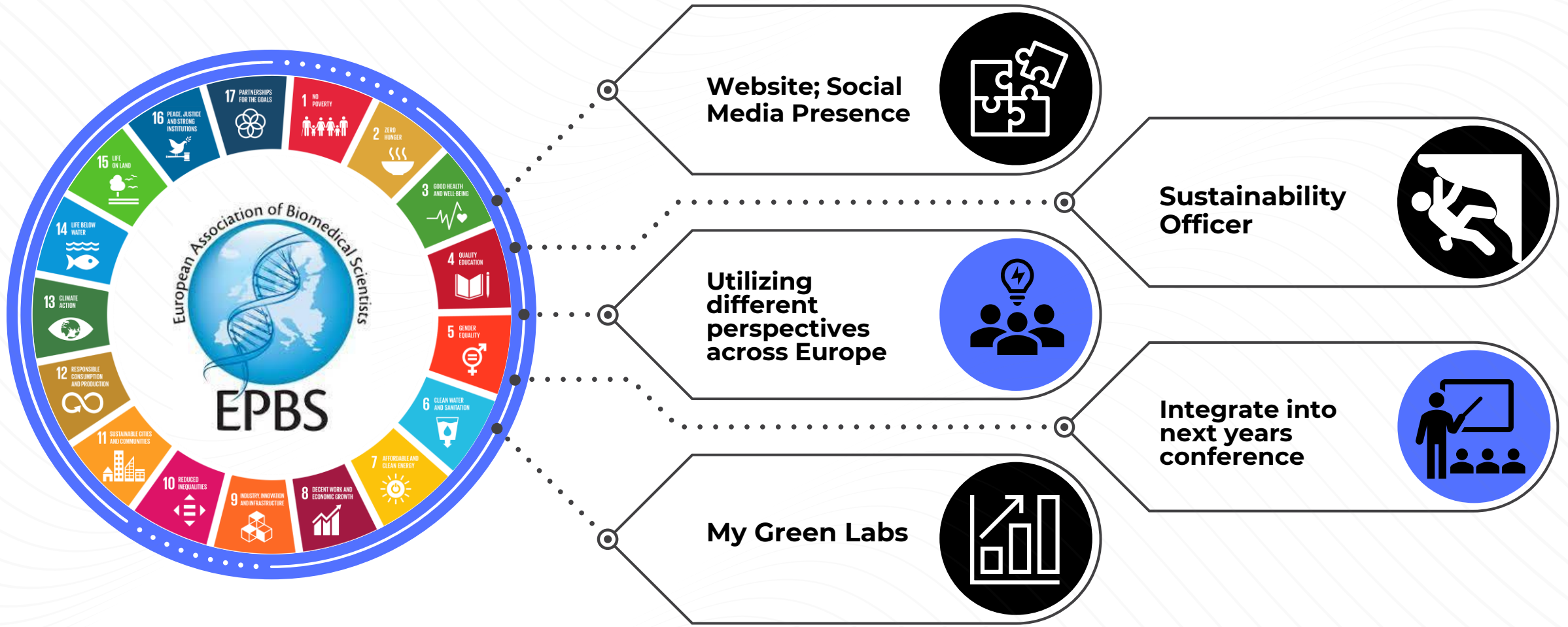
Latest News



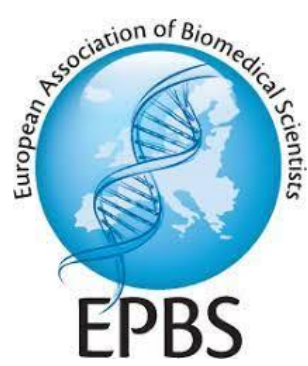
BioTriCK ended – visit BLS academy web
19 September 2023

The Erasmus+ project Biomedical Laboratory Science Triangular Centre of Knowledge designated as BioTriCK, in which EPBS was a strategic partner, has been ended successfully ... [Read more](#)

WHAT CAN YOU DO TO CONTRIBUTE TO GLOBAL CHANGE?







THANK YOU

Any Questions?