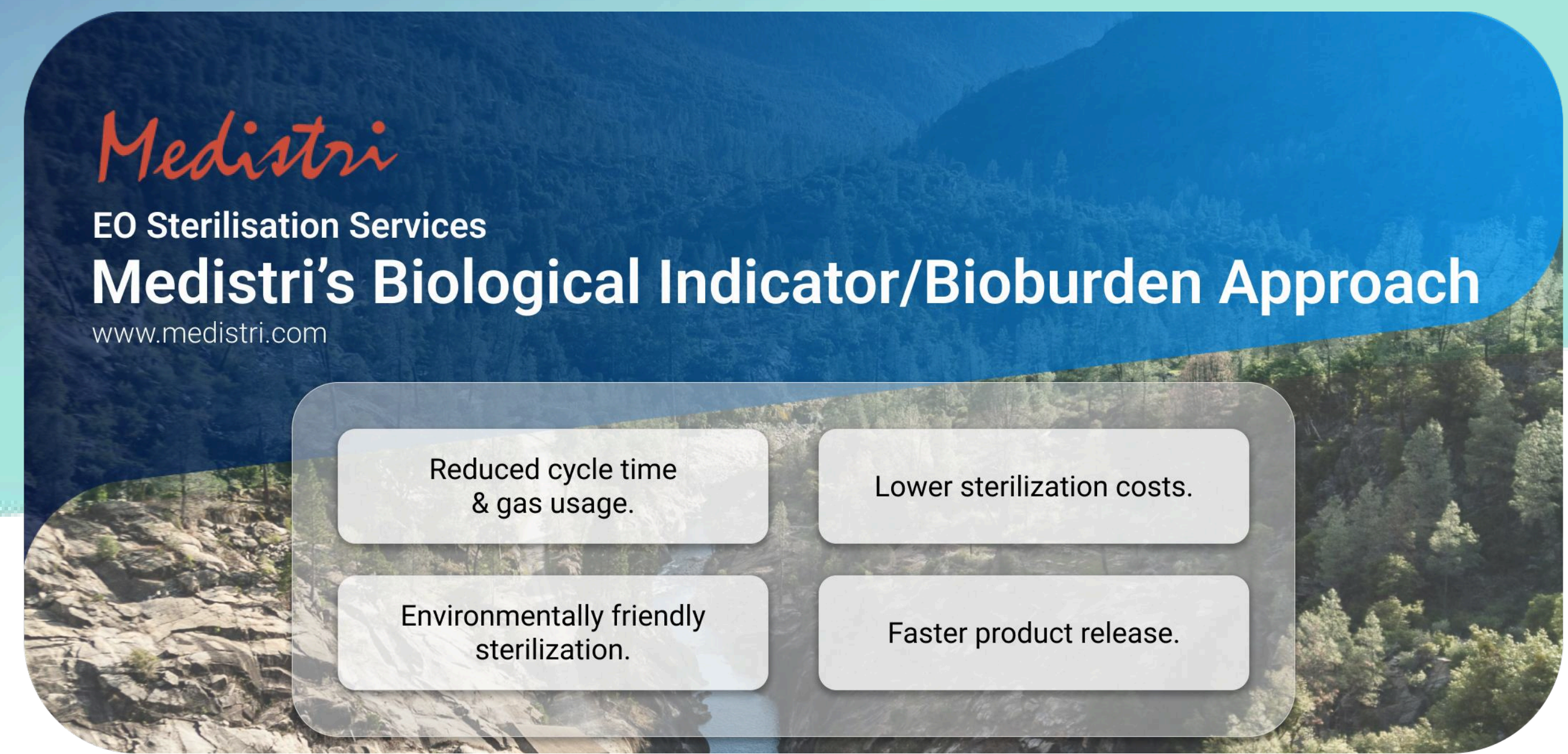


## Providing Sterilisation & Laboratory Services for the World's Most Innovative Healthcare Companies.

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## Medistri's Biological Indicator/Bioburden Approach - Medistri

### Medistri's Biological Indicator/Bioburden Approach

At Medistri, we are committed to creating sustainable solutions by focusing on scalable innovation. We aim to drive progress through new technologies, financial structures, and renewable energy deployment. In addition to our gas treatment technology, we have invested resources to offer a smarter alternative to the traditional sterilization methods. One of our key innovations is the "Biological Indicator/Bioburden Approach," a more efficient and environmentally friendly alternative to conventional sterilization.

The "Biological Indicator/Bioburden Approach" is an advanced sterilization method that ensures effective sterilization by using biological indicators and controlling the bioburden over time. Unlike traditional sterilization, which often overuses resources, this method optimizes gas exposure and cycle times to ensure a lower bioburden, making the process more efficient and sustainable.

The Biological Indicator/Bioburden Approach is important because it offers several advantages over the traditional "Overkill Approach" used in sterilization. By focusing on keeping the bioburden constant and ensuring it is less resistant than the biological indicators used, this method reduces the overall amount of gas and cycle time required. As a result, it leads to:

- Reduced cycle time and lower gas usage.
- Decreased residue in products, allowing faster product release.
- Lower costs of the sterilization cycle.
- More sustainable and environmentally friendly processes.


This approach significantly contributes to both cost savings and a greener future, in line with Medistri's sustainability goals.

The process involves multiple cycles with different exposure times to assess the lethal rate necessary for sterilization. These cycles are performed with a focus on maintaining the bioburden at a constant level that is lower than the biological indicators used for testing. By adjusting the exposure times, the method identifies the most efficient sterilization cycle for each product. This results in:

- Shorter cycle lengths due to less aeration time and reduced gas usage
- More efficient use of EO gas, contributing to reduced environmental impact
- Clear identification of the worst-case product through a performance comparison of multiple cycles

Biological Indicator/Bioburden Approach offers a more efficient, sustainable, and environmentally friendly solution for sterilization. By optimizing cycle times, reducing gas usage, and providing clear insights into product performance, Medistri has introduced a smarter and more cost-effective alternative to traditional sterilization methods.

This innovative approach is not only a step forward in terms of efficiency but also aligns with our broader goal of creating sustainable solutions for a better future.

 To learn more about Medistri's Biological Indicator/Bioburden Approach, visit on our website [here](#) or directly contact our team at [contact@medistri.swiss](mailto:contact@medistri.swiss).

- The Medistri Team

#Medistri