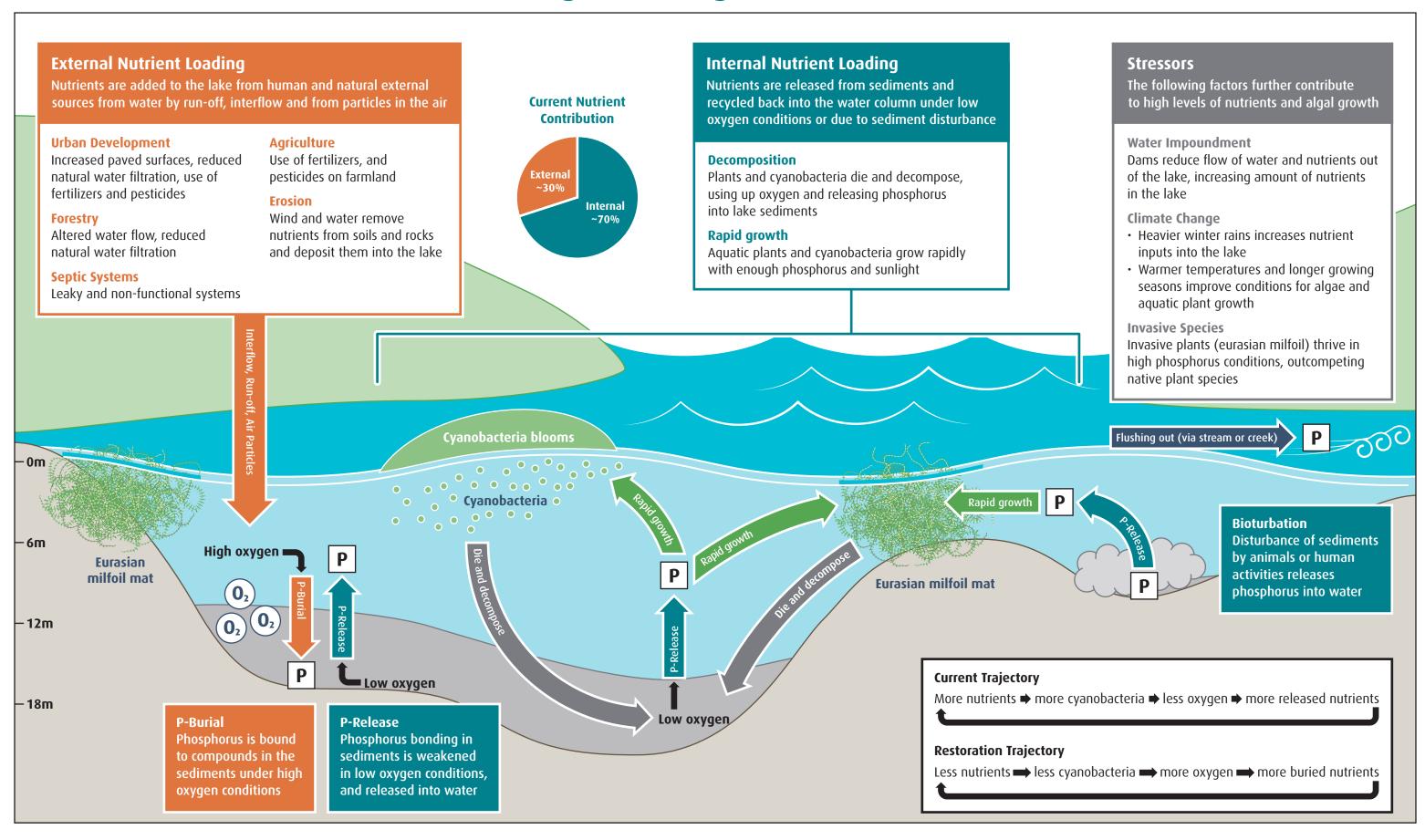
Nutrients in Lakes: Too much of a good thing



High nutrient levels in a lake are the result of a natural process called **Eutrophication**. This process is sped up by human activities on land that add more nutrients into the lake. Nutrients are important for the growth and survival of organisms, but too many nutrients, particularly phosphorus can cause problems. Phosphorus, and other nutrients are carried by water, sediments and deposited into the lake from external sources, known as **External Nutrient Loading**. Phosphorus in the water settles and collects in lake sediments (P-burial), and is released back into the water (P-release) during low oxygen conditions in a process known as **Internal Nutrient Loading**.

High phosphorus levels in the water contribute to potentially harmful Blue-Green Algae blooms and aggressive growth of aquatic plants. Following rapid growth of algae and plants, large volumes die and decompose using up available oxygen. These low oxygen conditions are unsuitable for fish and aquatic invertebrates, and allow the release of more phosphorus from the sediments, back into the water. Addressing both internal and external sources of nutrient loading is important for reducing algae blooms, managing aquatic plant growth and improving habitat for fish and other aquatic wildlife.

