SUSTAINABLE DEVELOPMENT GOALS

THE GLOBAL GOALS

SUSTAINABLE DEVELOPMENT

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future. At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries - developed and developing - in a global partnership.

WHAT IS SDG LOOKING FOR?

They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests.

GOALS

1
NO
POVERTY

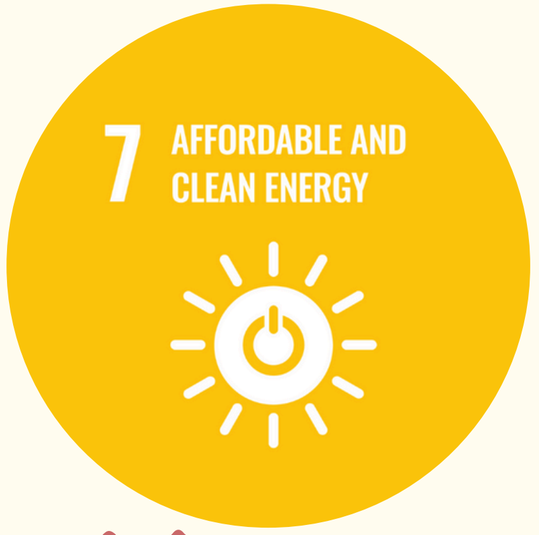
2
ZERO
HUNGER

3
GOOD HEALTH
AND WELL-BEING

4
QUALITY
EDUCATION

5
GENDER
EQUALITY

6
CLEAN WATER
AND SANITATION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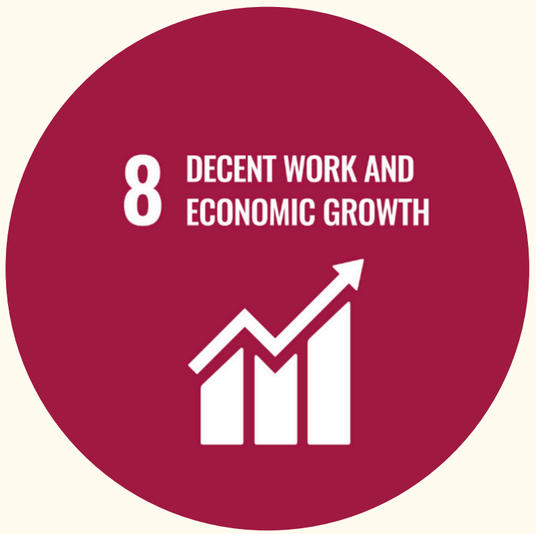
AFFORDABLE AND
CLEAN ENERGY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DECENT WORK AND
ECONOMIC GROWTH

GOALS

9
INDUSTRY, INNOVATION AND INFRASTRUCTURE

10
REDUCED INEQUALITIES

11
SUSTAINABLE CITIES AND COMMUNITIES

12
RESPONSIBLE CONSUMPTION AND PRODUCTION

13
CLIMATE ACTION

14
LIFE BELOW WATER

15
LIFE ON LAND

16
PEACE, JUSTICE AND STRONG INSTITUTIONS

17
PARTNERSHIPS FOR THE GOALS

TODAY WE ARE GOING TO FOCUS ON

LIFE ON LAND

LEVERAGING EARTH OBSERVATIONS TO ACHIEVE SDG 15.

FORESTS ARE VITAL FOR A SUSTAINABLE FUTURE, PROVIDING ESSENTIAL ECOSYSTEM SERVICES. SUSTAINABLE DEVELOPMENT GOAL 15 (SDG 15) AIMS TO PROTECT AND PROMOTE THE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS. MONITORING THESE RESOURCES IS CRUCIAL, WITH EARTH OBSERVATION TECHNOLOGIES SERVING AS KEY TOOLS.

EARTH OBSERVATIONS FOR THE SUSTAINABLE DEVELOPMENT GOALS

THE ROLE OF EARTH OBSERVATIONS IN MONITORING FORESTS

Remote sensing has enhanced forest monitoring, providing key insights into health. LiDAR creates 3D maps for carbon and deforestation assessment, while hyperspectral imagery detects early signs of vegetation stress or disease.

EARTH OBSERVATIONS FOR THE SUSTAINABLE DEVELOPMENT GOALS

CLIMATE MODELLING, PROJECTIONS AND ANALYSIS

CLIMATE CHANGE SCIENCE IS COMPLEX AND GLOBAL. SCIENTISTS AT THE CANADIAN CENTRE FOR CLIMATE MODELLING AND ANALYSIS (CCCMA) DEVELOP MODELS TO SIMULATE AND PREDICT CLIMATE CHANGES BOTH GLOBALLY AND REGIONALLY ACROSS DIFFERENT TIMESCALES.

Government of Canada
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¡LETS
PLAY!