

MECHANICAL VS CHEMICAL ENGINEERING

MECHANICAL VS CHEMICAL ENGINEERING ARE TWO OF THE MOST PROMINENT BRANCHES WITHIN THE FIELD OF ENGINEERING, EACH PLAYING A CRITICAL ROLE IN ADVANCING TECHNOLOGY AND INDUSTRY. WHILE BOTH DISCIPLINES INVOLVE PROBLEM-SOLVING, DESIGN, AND INNOVATION, THEY FOCUS ON DIFFERENT ASPECTS OF SCIENCE AND TECHNOLOGY. MECHANICAL ENGINEERING PRIMARILY DEALS WITH THE DESIGN, ANALYSIS, AND MANUFACTURING OF MECHANICAL SYSTEMS, WHEREAS CHEMICAL ENGINEERING FOCUSES ON CHEMICAL PROCESSES AND THE TRANSFORMATION OF RAW MATERIALS INTO VALUABLE PRODUCTS. UNDERSTANDING THE KEY DIFFERENCES, EDUCATIONAL PATHS, CAREER OPPORTUNITIES, AND SKILLS REQUIRED CAN HELP STUDENTS AND PROFESSIONALS MAKE INFORMED DECISIONS ABOUT THEIR FUTURE. THIS ARTICLE EXPLORES THE DISTINCTIONS AND OVERLAPS BETWEEN MECHANICAL VS CHEMICAL ENGINEERING IN DETAIL. THE DISCUSSION INCLUDES THEIR DEFINITIONS, CORE SKILLS, TYPICAL INDUSTRIES, JOB ROLES, SALARY EXPECTATIONS, AND FUTURE OUTLOOKS. BELOW IS A BREAKDOWN OF THE MAIN TOPICS COVERED.

- DEFINITION AND SCOPE OF MECHANICAL AND CHEMICAL ENGINEERING
- EDUCATIONAL REQUIREMENTS AND CURRICULUM
- CORE SKILLS AND COMPETENCIES
- INDUSTRY APPLICATIONS AND JOB ROLES
- SALARY AND CAREER PROSPECTS
- FUTURE TRENDS IN MECHANICAL VS CHEMICAL ENGINEERING

DEFINITION AND SCOPE OF MECHANICAL AND CHEMICAL ENGINEERING

THE FIELDS OF MECHANICAL AND CHEMICAL ENGINEERING ENCOMPASS DIVERSE AREAS OF TECHNOLOGY AND SCIENTIFIC PRINCIPLES. MECHANICAL ENGINEERING IS THE BRANCH OF ENGINEERING FOCUSED ON THE DESIGN, ANALYSIS, MANUFACTURING, AND MAINTENANCE OF MECHANICAL SYSTEMS. IT INVOLVES THE APPLICATION OF PHYSICS, MATERIALS SCIENCE, AND MATHEMATICS TO DEVELOP MACHINES, ENGINES, TOOLS, AND STRUCTURAL COMPONENTS. MECHANICAL ENGINEERS WORK ON ANYTHING FROM SMALL COMPONENTS TO LARGE MACHINERY AND COMPLEX SYSTEMS, ADDRESSING CHALLENGES RELATED TO DYNAMICS, THERMODYNAMICS, FLUID MECHANICS, AND MATERIAL STRENGTH.

CHEMICAL ENGINEERING, ON THE OTHER HAND, INTEGRATES PRINCIPLES OF CHEMISTRY, PHYSICS, BIOLOGY, AND MATHEMATICS TO DESIGN PROCESSES THAT CONVERT RAW MATERIALS INTO USEFUL PRODUCTS, SUCH AS FUELS, CHEMICALS, PHARMACEUTICALS, AND FOOD. CHEMICAL ENGINEERS DEVELOP AND OPTIMIZE PROCESSES INVOLVING CHEMICAL REACTIONS, HEAT AND MASS TRANSFER, AND SEPARATION TECHNIQUES. THEIR WORK IS ESSENTIAL IN INDUSTRIES LIKE PETROCHEMICAL, PHARMACEUTICALS, ENVIRONMENTAL ENGINEERING, AND MANUFACTURING.

KEY DIFFERENCES IN FOCUS

WHILE MECHANICAL ENGINEERING CENTERS ON MECHANICAL SYSTEMS AND PHYSICAL MACHINERY, CHEMICAL ENGINEERING EMPHASIZES CHEMICAL PROCESSES AND REACTION ENGINEERING. MECHANICAL ENGINEERS OFTEN DESIGN PHYSICAL DEVICES, WHEREAS CHEMICAL ENGINEERS DESIGN PROCESSES TO PRODUCE MATERIALS OR SUBSTANCES AT SCALE.

OVERLAP BETWEEN THE DISCIPLINES

DESPITE THEIR DIFFERENCES, MECHANICAL AND CHEMICAL ENGINEERING SHARE COMMON GROUND IN AREAS SUCH AS THERMODYNAMICS, FLUID DYNAMICS, AND MATERIALS SCIENCE. COLLABORATION BETWEEN THESE FIELDS IS COMMON IN

INDUSTRIES LIKE ENERGY, AUTOMOTIVE, AND MANUFACTURING.

EDUCATIONAL REQUIREMENTS AND CURRICULUM

BOTH MECHANICAL AND CHEMICAL ENGINEERING REQUIRE A STRONG FOUNDATION IN MATHEMATICS AND SCIENCES, BUT THE SPECIFIC CURRICULUM VARIES TO REFLECT THEIR DIFFERENT EMPHASES. A BACHELOR OF SCIENCE DEGREE IN EITHER DISCIPLINE TYPICALLY TAKES FOUR YEARS TO COMPLETE, WITH COURSEWORK THAT BLENDS THEORY AND PRACTICAL APPLICATIONS.

MECHANICAL ENGINEERING CURRICULUM

MECHANICAL ENGINEERING PROGRAMS FOCUS ON COURSES LIKE MECHANICS, DYNAMICS, THERMODYNAMICS, MATERIALS SCIENCE, CONTROL SYSTEMS, AND COMPUTER-AIDED DESIGN (CAD). STUDENTS GAIN HANDS-ON EXPERIENCE THROUGH LABORATORIES AND DESIGN PROJECTS FOCUSED ON MECHANICAL SYSTEMS AND MANUFACTURING TECHNIQUES.

CHEMICAL ENGINEERING CURRICULUM

CHEMICAL ENGINEERING STUDENTS STUDY SUBJECTS SUCH AS ORGANIC AND INORGANIC CHEMISTRY, CHEMICAL REACTION ENGINEERING, TRANSPORT PHENOMENA, PROCESS CONTROL, AND THERMODYNAMICS. LABORATORY WORK OFTEN INVOLVES CHEMICAL PROCESS SIMULATIONS AND EXPERIMENTATION WITH CHEMICAL REACTIONS AND SEPARATIONS.

ADVANCED EDUCATION AND SPECIALIZATIONS

GRADUATE STUDIES IN EITHER FIELD OFFER OPPORTUNITIES TO SPECIALIZE IN NICHE AREAS SUCH AS ROBOTICS, AEROSPACE, OR RENEWABLE ENERGY FOR MECHANICAL ENGINEERING AND BIOCHEMICAL ENGINEERING, MATERIALS PROCESSING, OR ENVIRONMENTAL TECHNOLOGY FOR CHEMICAL ENGINEERING.

CORE SKILLS AND COMPETENCIES

SUCCESS IN MECHANICAL VS CHEMICAL ENGINEERING DEPENDS ON A COMBINATION OF TECHNICAL KNOWLEDGE AND SOFT SKILLS TAILORED TO EACH DISCIPLINE'S DEMANDS. BOTH REQUIRE ANALYTICAL THINKING, PROBLEM-SOLVING ABILITIES, AND STRONG MATHEMATICAL SKILLS.

MECHANICAL ENGINEERING SKILLS

MECHANICAL ENGINEERS NEED PROFICIENCY IN:

- COMPUTER-AIDED DESIGN (CAD) AND COMPUTER-AIDED MANUFACTURING (CAM)
- THERMODYNAMICS AND FLUID MECHANICS
- MATERIALS SCIENCE AND STRUCTURAL ANALYSIS
- MECHANICAL SYSTEM DESIGN AND TESTING
- PROJECT MANAGEMENT AND TEAMWORK

CHEMICAL ENGINEERING SKILLS

CHEMICAL ENGINEERS ARE EXPECTED TO EXCEL IN:

- CHEMICAL PROCESS DESIGN AND OPTIMIZATION
- REACTION ENGINEERING AND CATALYSIS
- HEAT AND MASS TRANSFER PRINCIPLES
- PROCESS CONTROL AND SAFETY MANAGEMENT
- ENVIRONMENTAL REGULATIONS AND SUSTAINABILITY PRACTICES

INDUSTRY APPLICATIONS AND JOB ROLES

MECHANICAL AND CHEMICAL ENGINEERS FIND EMPLOYMENT ACROSS A WIDE RANGE OF INDUSTRIES, EACH OFFERING DISTINCT ROLES AND RESPONSIBILITIES ALIGNED WITH THEIR EXPERTISE.

MECHANICAL ENGINEERING INDUSTRIES AND CAREERS

COMMON SECTORS FOR MECHANICAL ENGINEERS INCLUDE:

- AUTOMOTIVE MANUFACTURING AND DESIGN
- AEROSPACE AND DEFENSE
- ENERGY PRODUCTION AND POWER PLANTS
- ROBOTICS AND AUTOMATION
- MANUFACTURING AND INDUSTRIAL MACHINERY

TYPICAL JOB ROLES INVOLVE MECHANICAL DESIGN ENGINEER, MANUFACTURING ENGINEER, SYSTEMS ANALYST, MAINTENANCE ENGINEER, AND QUALITY CONTROL ENGINEER.

CHEMICAL ENGINEERING INDUSTRIES AND CAREERS

CHEMICAL ENGINEERS FREQUENTLY WORK IN:

- PETROCHEMICAL AND REFINING INDUSTRIES
- PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES
- FOOD AND BEVERAGE PROCESSING
- ENVIRONMENTAL AND WASTE MANAGEMENT
- MATERIALS SCIENCE AND NANOTECHNOLOGY

COMMON POSITIONS INCLUDE PROCESS ENGINEER, PRODUCTION ENGINEER, RESEARCH SCIENTIST, SAFETY ENGINEER, AND ENVIRONMENTAL CONSULTANT.

SALARY AND CAREER PROSPECTS

THE COMPENSATION AND CAREER GROWTH IN MECHANICAL VS CHEMICAL ENGINEERING VARY BASED ON INDUSTRY, LOCATION, EXPERIENCE, AND EDUCATION LEVEL. BOTH FIELDS OFFER COMPETITIVE SALARIES AND OPPORTUNITIES FOR ADVANCEMENT.

MECHANICAL ENGINEERING SALARY OVERVIEW

MECHANICAL ENGINEERS TYPICALLY EARN SALARIES RANGING FROM ENTRY-LEVEL TO HIGHLY EXPERIENCED PROFESSIONALS. MEDIAN ANNUAL WAGES TEND TO BE STRONG, ESPECIALLY IN HIGH-DEMAND SECTORS LIKE AEROSPACE AND ENERGY. CAREER PROGRESSION CAN LEAD TO SENIOR ENGINEER, PROJECT MANAGER, OR EXECUTIVE ROLES.

CHEMICAL ENGINEERING SALARY OVERVIEW

CHEMICAL ENGINEERS OFTEN COMMAND SLIGHTLY HIGHER AVERAGE SALARIES DUE TO THE SPECIALIZED KNOWLEDGE AND DEMAND IN CRITICAL INDUSTRIES SUCH AS PHARMACEUTICALS AND ENERGY. ADVANCEMENT OPPORTUNITIES INCLUDE SENIOR PROCESS ENGINEER, TECHNICAL DIRECTOR, AND OPERATIONS MANAGER POSITIONS.

FACTORS INFLUENCING CAREER GROWTH

FACTORS SUCH AS ADVANCED DEGREES, PROFESSIONAL ENGINEERING LICENSURE, AND CERTIFICATIONS CAN SIGNIFICANTLY IMPACT CAREER TRAJECTORIES AND EARNING POTENTIAL IN BOTH DISCIPLINES.

FUTURE TRENDS IN MECHANICAL VS CHEMICAL ENGINEERING

EMERGING TECHNOLOGIES AND GLOBAL CHALLENGES ARE SHAPING THE FUTURE LANDSCAPE OF BOTH MECHANICAL AND CHEMICAL ENGINEERING. INNOVATIONS IN SUSTAINABILITY, AUTOMATION, AND MATERIALS SCIENCE ARE DRIVING NEW OPPORTUNITIES AND TRANSFORMING TRADITIONAL ROLES.

MECHANICAL ENGINEERING TRENDS

KEY TRENDS INCLUDE THE INTEGRATION OF ARTIFICIAL INTELLIGENCE AND ROBOTICS, DEVELOPMENT OF RENEWABLE ENERGY TECHNOLOGIES, ADVANCES IN ADDITIVE MANUFACTURING (3D PRINTING), AND SMART MATERIALS. MECHANICAL ENGINEERS ARE INCREASINGLY INVOLVED IN DESIGNING SYSTEMS THAT ARE ENERGY-EFFICIENT AND ENVIRONMENTALLY FRIENDLY.

CHEMICAL ENGINEERING TRENDS

CHEMICAL ENGINEERING IS EVOLVING WITH A FOCUS ON GREEN CHEMISTRY, BIOENGINEERING, CARBON CAPTURE AND STORAGE, AND ADVANCED MATERIALS FOR ENERGY STORAGE. THE DISCIPLINE IS CRITICAL IN ADDRESSING ENVIRONMENTAL CONCERNS AND DEVELOPING SUSTAINABLE INDUSTRIAL PROCESSES.

COLLABORATION AND INTERDISCIPLINARY WORK

FUTURE ENGINEERING PROJECTS OFTEN REQUIRE COLLABORATION BETWEEN MECHANICAL AND CHEMICAL ENGINEERS, PARTICULARLY

IN INDUSTRIES LIKE ENERGY, PHARMACEUTICALS, AND MANUFACTURING, TO DEVELOP INTEGRATED SOLUTIONS THAT OPTIMIZE BOTH MECHANICAL SYSTEMS AND CHEMICAL PROCESSES.

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE MAIN DIFFERENCES BETWEEN MECHANICAL AND CHEMICAL ENGINEERING?

MECHANICAL ENGINEERING FOCUSES ON DESIGNING, ANALYZING, AND MANUFACTURING MECHANICAL SYSTEMS, SUCH AS ENGINES AND MACHINES, WHILE CHEMICAL ENGINEERING INVOLVES THE APPLICATION OF CHEMISTRY, PHYSICS, AND BIOLOGY TO PROCESS RAW MATERIALS INTO USEFUL PRODUCTS LIKE FUELS, CHEMICALS, AND PHARMACEUTICALS.

WHICH INDUSTRIES TYPICALLY EMPLOY MECHANICAL ENGINEERS VERSUS CHEMICAL ENGINEERS?

MECHANICAL ENGINEERS OFTEN WORK IN AUTOMOTIVE, AEROSPACE, ROBOTICS, AND MANUFACTURING INDUSTRIES, WHEREAS CHEMICAL ENGINEERS ARE COMMONLY EMPLOYED IN PETROCHEMICALS, PHARMACEUTICALS, FOOD PROCESSING, AND ENVIRONMENTAL SECTORS.

WHAT SKILLS ARE ESSENTIAL FOR SUCCESS IN MECHANICAL ENGINEERING COMPARED TO CHEMICAL ENGINEERING?

MECHANICAL ENGINEERS NEED STRONG SKILLS IN MECHANICS, THERMODYNAMICS, MATERIALS SCIENCE, AND CAD SOFTWARE, WHILE CHEMICAL ENGINEERS REQUIRE EXPERTISE IN CHEMISTRY, PROCESS DESIGN, FLUID DYNAMICS, AND CHEMICAL REACTION ENGINEERING.

HOW DO THE CAREER OPPORTUNITIES AND SALARY PROSPECTS COMPARE BETWEEN MECHANICAL AND CHEMICAL ENGINEERING?

BOTH FIELDS OFFER STRONG CAREER OPPORTUNITIES, BUT MECHANICAL ENGINEERING TYPICALLY HAS A BROADER RANGE OF JOB ROLES DUE TO ITS APPLICATION IN DIVERSE INDUSTRIES; SALARY LEVELS ARE COMPARABLE BUT CAN VARY BASED ON SPECIALIZATION, LOCATION, AND EXPERIENCE.

WHAT EDUCATIONAL BACKGROUND IS REQUIRED FOR MECHANICAL VERSUS CHEMICAL ENGINEERING?

BOTH FIELDS GENERALLY REQUIRE A BACHELOR'S DEGREE IN THEIR RESPECTIVE ENGINEERING DISCIPLINE, WITH MECHANICAL ENGINEERING FOCUSING ON MECHANICAL SYSTEMS AND PHYSICS, AND CHEMICAL ENGINEERING EMPHASIZING CHEMISTRY AND PROCESS ENGINEERING COURSES.

HOW DO MECHANICAL AND CHEMICAL ENGINEERS COLLABORATE IN REAL-WORLD PROJECTS?

MECHANICAL AND CHEMICAL ENGINEERS OFTEN COLLABORATE IN INDUSTRIES LIKE ENERGY AND MANUFACTURING, WHERE MECHANICAL ENGINEERS DESIGN EQUIPMENT AND MACHINERY, AND CHEMICAL ENGINEERS DEVELOP PROCESSES AND ENSURE CHEMICAL SAFETY AND EFFICIENCY.

ADDITIONAL RESOURCES

1. *MECHANICAL VS. CHEMICAL ENGINEERING: FOUNDATIONS AND FUTURE*

THIS BOOK OFFERS A COMPREHENSIVE COMPARISON OF MECHANICAL AND CHEMICAL ENGINEERING DISCIPLINES, TRACING THEIR

HISTORICAL DEVELOPMENT AND CORE PRINCIPLES. IT EXPLORES THE FUNDAMENTAL DIFFERENCES IN METHODOLOGIES, APPLICATIONS, AND CAREER PATHS. READERS WILL GAIN INSIGHTS INTO HOW EACH FIELD TACKLES ENGINEERING CHALLENGES AND CONTRIBUTES TO TECHNOLOGICAL INNOVATION.

2. PRINCIPLES OF MECHANICAL ENGINEERING FOR CHEMICAL ENGINEERS

DESIGNED FOR CHEMICAL ENGINEERS SEEKING TO UNDERSTAND MECHANICAL ENGINEERING BASICS, THIS BOOK COVERS ESSENTIAL MECHANICAL CONCEPTS SUCH AS THERMODYNAMICS, FLUID MECHANICS, AND MATERIALS SCIENCE. IT BRIDGES THE KNOWLEDGE GAP BETWEEN THE TWO FIELDS, EMPHASIZING INTERDISCIPLINARY APPLICATIONS IN PROCESS DESIGN AND EQUIPMENT OPERATION.

3. CHEMICAL ENGINEERING PROCESSES: MECHANICAL AND CHEMICAL PERSPECTIVES

THIS TITLE DELVES INTO CHEMICAL ENGINEERING PROCESSES WITH A FOCUS ON THE MECHANICAL SYSTEMS THAT SUPPORT THEM, LIKE PUMPS, COMPRESSORS, AND HEAT EXCHANGERS. IT HIGHLIGHTS HOW MECHANICAL ENGINEERING PRINCIPLES ARE INTEGRAL TO OPTIMIZING CHEMICAL PRODUCTION AND ENSURING SAFETY AND EFFICIENCY IN INDUSTRIAL SETUPS.

4. COMPARATIVE STUDY OF MECHANICAL AND CHEMICAL ENGINEERING DESIGN

FOCUSING ON DESIGN METHODOLOGIES, THIS BOOK CONTRASTS THE APPROACHES USED IN MECHANICAL AND CHEMICAL ENGINEERING PROJECTS. IT DISCUSSES HOW ENGINEERS FROM BOTH DISCIPLINES ADDRESS CONSTRAINTS, MATERIAL SELECTION, AND SUSTAINABILITY, PROVIDING CASE STUDIES FROM AUTOMOTIVE, ENERGY, AND PHARMACEUTICAL INDUSTRIES.

5. INTERDISCIPLINARY ENGINEERING: INTEGRATING MECHANICAL AND CHEMICAL SOLUTIONS

THIS WORK EMPHASIZES THE GROWING NEED FOR COLLABORATION BETWEEN MECHANICAL AND CHEMICAL ENGINEERS IN MODERN ENGINEERING CHALLENGES. IT PRESENTS REAL-WORLD EXAMPLES WHERE COMBINED EXPERTISE LEADS TO INNOVATIVE SOLUTIONS IN AREAS LIKE RENEWABLE ENERGY, ENVIRONMENTAL ENGINEERING, AND ADVANCED MANUFACTURING.

6. MATERIALS SCIENCE IN MECHANICAL AND CHEMICAL ENGINEERING

A DETAILED EXPLORATION OF MATERIALS USED IN BOTH MECHANICAL AND CHEMICAL ENGINEERING FIELDS, THIS BOOK COVERS PROPERTIES, TESTING, AND APPLICATIONS. IT EXPLAINS HOW MATERIAL SELECTION IMPACTS SYSTEM PERFORMANCE AND DURABILITY, OFFERING GUIDANCE FOR ENGINEERS WORKING ON CROSS-DISCIPLINARY PROJECTS.

7. ENERGY SYSTEMS: MECHANICAL VS. CHEMICAL ENGINEERING APPROACHES

THIS BOOK ANALYZES ENERGY PRODUCTION AND MANAGEMENT FROM THE PERSPECTIVES OF MECHANICAL AND CHEMICAL ENGINEERING. IT COMPARES TECHNOLOGIES SUCH AS COMBUSTION ENGINES, FUEL CELLS, AND CHEMICAL REACTORS, ASSESSING THEIR EFFICIENCY, ENVIRONMENTAL IMPACT, AND FUTURE POTENTIAL.

8. PROCESS CONTROL AND INSTRUMENTATION IN MECHANICAL AND CHEMICAL ENGINEERING

FOCUSING ON CONTROL SYSTEMS, THIS TEXT EXPLORES HOW MECHANICAL AND CHEMICAL ENGINEERS DESIGN AND IMPLEMENT INSTRUMENTATION TO MONITOR AND REGULATE PROCESSES. IT COVERS SENSORS, FEEDBACK LOOPS, AND AUTOMATION, HIGHLIGHTING DIFFERENCES AND OVERLAPS IN EACH DISCIPLINE'S APPROACH.

9. CAREER PATHS IN MECHANICAL AND CHEMICAL ENGINEERING: OPPORTUNITIES AND CHALLENGES

A GUIDE FOR STUDENTS AND PROFESSIONALS, THIS BOOK OUTLINES THE EDUCATION, SKILLS, AND INDUSTRIES RELATED TO MECHANICAL AND CHEMICAL ENGINEERING CAREERS. IT DISCUSSES JOB MARKET TRENDS, SALARY EXPECTATIONS, AND THE IMPACT OF EMERGING TECHNOLOGIES ON EACH FIELD, HELPING READERS MAKE INFORMED CAREER DECISIONS.

Mechanical Vs Chemical Engineering

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Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty Encyclopedias. Chemical engineering is a branch of engineering, dealing with processes in which materials undergo changes in their physical or chemical state. These changes may concern size, energy content, composition and/or other application properties. Chemical engineering deals with many processes belonging to chemical industry or related industries (petrochemical, metallurgical, food, pharmaceutical, fine chemicals, coatings and colors, renewable raw materials, biotechnological, etc.), and finds application in manufacturing of such products as acids, alkalis, salts, fuels, fertilizers, crop protection agents, ceramics, glass, paper, colors, dyestuffs, plastics, cosmetics, vitamins and many others. It also plays significant role in environmental protection, biotechnology, nanotechnology, energy production and sustainable economical development. The Theme on Chemical Engineering and Chemical Process Technology deals, in five volumes and covers several topics such as: Fundamentals of Chemical Engineering; Unit Operations - Fluids; Unit Operations - Solids; Chemical Reaction Engineering; Process Development, Modeling, Optimization and Control; Process Management; The Future of Chemical Engineering; Chemical Engineering Education; Main Products, which are then expanded into multiple subtopics, each as a chapter. These five volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

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