



# QATAR FOUNDATION Doha, Qatar

**09 DECEMBER 2007** 



for Education, Science and Community Development

"The sharing of knowledge, ideas and values is the noblest way to transcend barriers..."

Her Highness Sheikha Mozah Bint Nasser Al-Missned, Chairperson of Qatar Foundation



for Education, Science and Community Development



An independent, chartered, nonprofit organization committed to the development of Qatar and its people.

Founded in 1995 by HH the Emir Sheikh Hamad bin Khalifa Al-Thani

Chairperson: HH Sheikha Mozah bint Nasser Al-Missned



Mission and Vision

## Qatar Foundation is guided by the principle that a nation's true wealth is its people. Our goal is to develop that human potential:

- by creating a network of centers committed to delivering first-rate education, supporting science and research and promoting community development
- by partnering with world-class educational and research institutions
- by building a unique Education City, featuring state-of-the-art technology and facilities, that is a hub for the creating, sharing and finding practical uses of knowledge



Serving the whole citizen



- Early Years Education
- Specialized Education Program
- Primary, Secondary, College Preparatory Programs
- University Branch Campuses
- Public Policy Research
- Commercial Research and Development
- Community Outreach

#### Early Years through College Preparatory Education









#### UNIVERSITY BRANCH CAMPUSES AND GRADUATE STUDIES













Graphic Design Interior Design Fashion Design and Merchandising 2 year Premedical Program4 year M.D. Program

Chemical Engineering
Electrical Engineering
Mechanical Engineering
Petroleum Engineering

Business Administration Computer Science Information Systems International Relations

Islamic Studies Program
Contemporary Figh

#### RESEARCH CENTERS







#### **COMMUNITY OUTREACH**



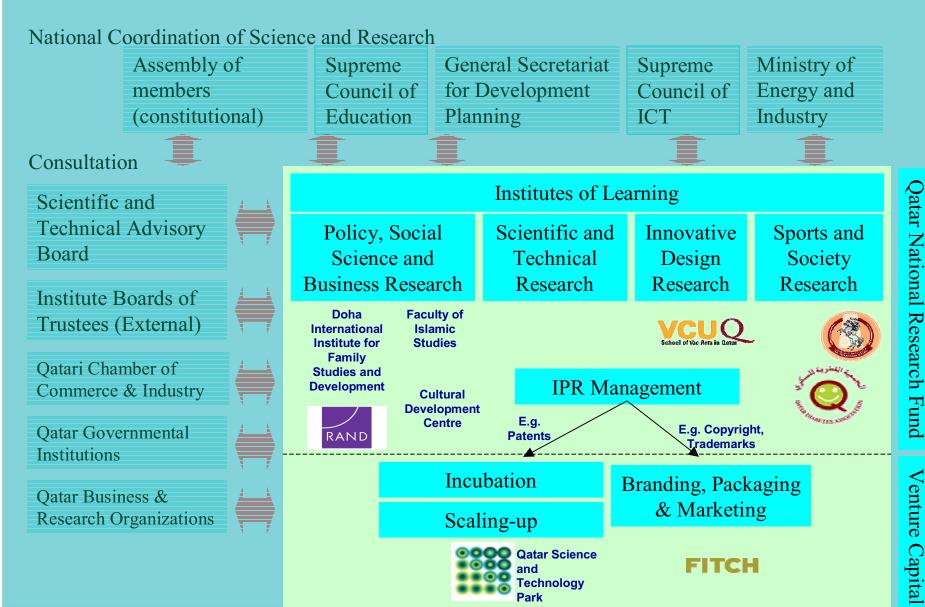














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#### Goals

As part of Qatar Foundation supporting national aspirations for research and development for the future, the Research Division will contribute to efforts to build a diverse set of research and development capabilities that will optimize economic and social transformation. Those efforts will be related to achieving the four goals of the Research Division.

- **Goal 1**: To be known in niche areas of research at the national level (with education city branch campuses and research centers).
- Goal 2: To make an impact to society that will advance national health in Qatar (with SIDRA Medical & Research Center and branch campuses).
- **Goal 3**: To contribute to the creation of innovative applied research centers and companies leading to the emergence of a new industry sector for Qatar (with QSTP)
- **Goal 4**: To attract international research institutions, private or governmental institutions to either partner or invest in Qatar research and development (with QNRF).

#### Convergence of Platform Science & Technology - The Future

QF Scientific and Technical Research - Proposed Themes

#### **BIOMEDICINE & BIOTECHNOLOGY:**

- The use of modern biotechnology techniques in medicine, ecology and energy
- Bioremediation
- Epidemiology
- Microbiology
- Genomics
- Proteomics
- Bioinformatics
- Molecular Imaging

#### COMPUTATIONAL **SCIENCES:**

 Using computational techniques to make rapid analysis of healthcare, ecology and energy data possible

#### **ENERGY & ENVIRONMENTAL.** Renewable Energy **SCIENCES:**

 Use of interdisciplinary studies to determine the effects between environment, human health, scarce energy resources and sustainable ecosystem

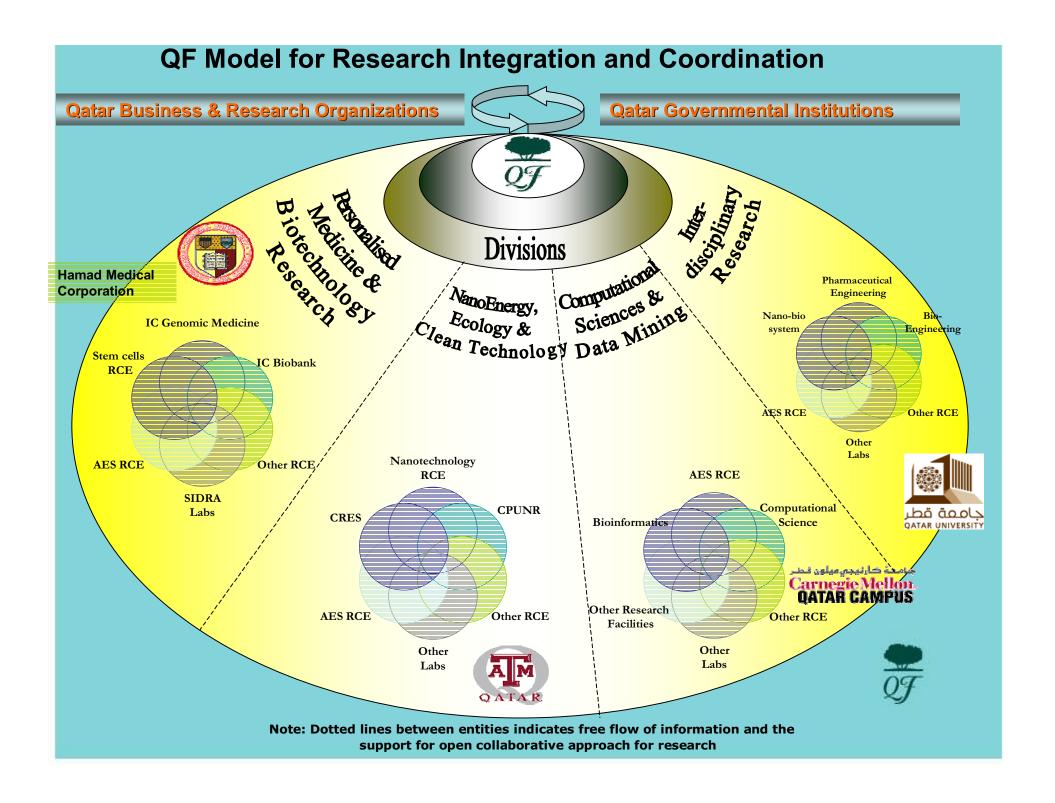
- Medicine
  - Energy
- Hydrosphere
- Ecology cloning
- Nanoparticle drug delivery
- Nanorobots
- Toxicology

- Pharmacogenomics
- Nanovaccinology
- Biocompatibility

#### NANOTECHNOLOGY:

 Use of multidisciplinary fields to control matter at the atomic and molecular scale for applications in medical, energy and ecology





## QF' Research, Science and Technology Division: Long Term Vision

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

#### Phase 1: Pursuit of Cutting Edge Science

Enrich people skills and research capabilities through the pursuit of cutting edge science in Qatar:

- Specific programmes initiated in year 1 (14 new programmes)
- Support other ongoing programmes and initiatives

### Phase 2: Position Qatar as Major Regional Contributor of Science

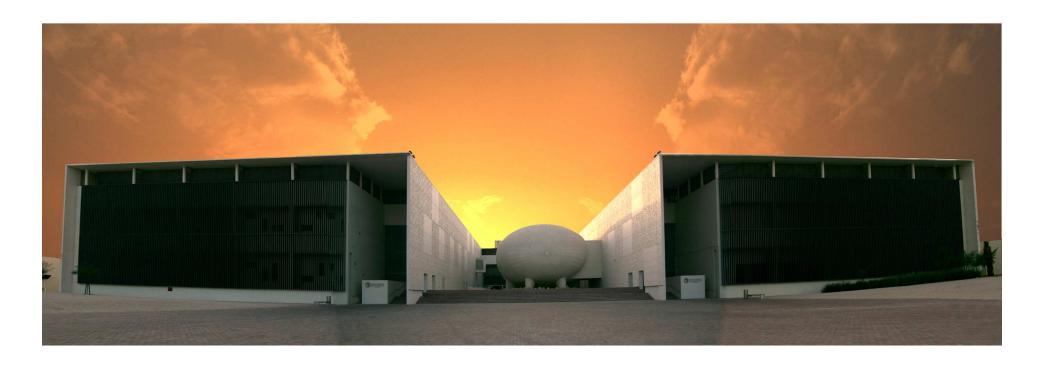
Advance the national ability to become a major contributor of science and technology at regional stage and position among the world leaders in patent filings

### Phase 3: Become A Magnet for Innovative Companies Worldwide

Achieve significant advancement in niche areas of research and ensure this step forward becomes the growth sectors of tomorrow

Building
Qatar's
strength
from Day 1
progressing
in parallel







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