



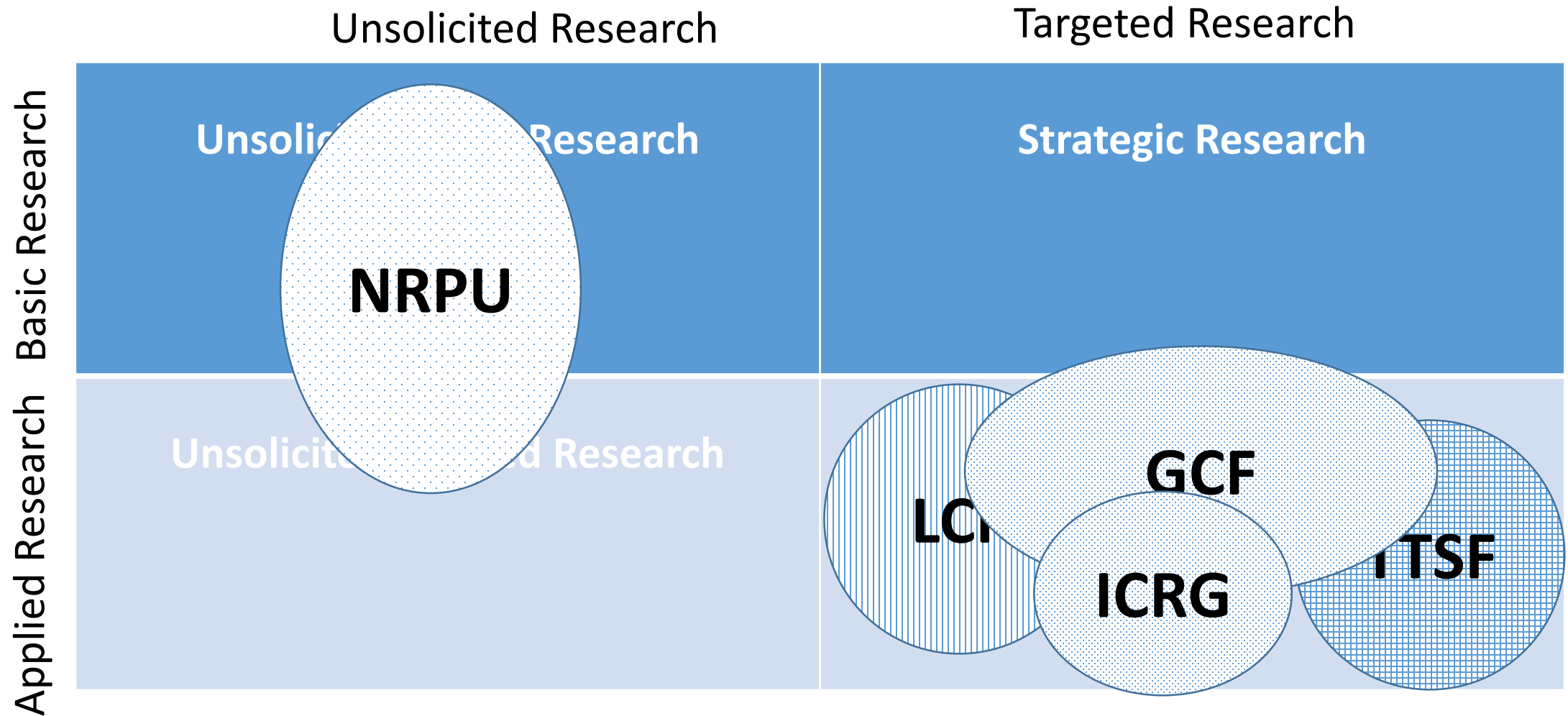
**Research and Development Division**

# Agenda

- R&D Framework
- Scientific Review Panels

# Overarching R&D Framework

# Landscape of Research Grants



# GCF – Grand Challenge Fund

- Individual Grant Value between Rs. 15 – 225 Million
- Call aims to stimulate collaborative interdisciplinary research within the strategic priority areas of relevance to present or future Pakistan-based industry and to society
- Must be linked to at least one of the strategic priority areas:
  - Food security
  - Water management and sustainability
  - Sustainable energy, energy efficiency
  - Identity politics
  - Export promotion
  - Urban planning, sustainable urban design, low-cost housing
  - Climate mitigation and adaptation
  - IT/Telecom, including but not limited to artificial intelligence, cybersecurity, cloud computing and big data
  - Innovative governance and reforms
  - Disaster management

# GCF – Grand Challenge Fund

- Consortium of three to four applicants with:
  - At least One applicant from research-intensive university
  - Cross-disciplinary and relevant complementary scientific expertise
  - Project participation from industry, public authorities or other relevant organisations will be considered a merit
- Three stage process:
  1. Project Outline stage
  2. Full Proposal stage
  3. Presentation to High Level Expert Panel
- Max. project duration of 3 years
- Expected number of grants per year is 25 (Female participation will be encouraged)

# LCF – Local Challenge Fund

- Individual Grant Value between Rs. 7.5 – 100 Million
- Grant Call tailored for local needs at district/division level
  - Cross-disciplinary research addressing any of the 17 SDGs at the local level
  - To strengthen the local university research capacity to contribute to the research mission of host institution in solving local issues.
- Principal Investigators are encouraged to seek co- and complementary financing from other sources
- May involve local industry

# LCF – Local Challenge Fund

- Consortium of applicants with:
  - Lead Principal Investigators (PIs) must be a university faculty members of HEI (Public or Private)
  - Project participation from industry, public authorities or other relevant organisations will be considered a merit (No financial transactions will be made to private-sector collaborators)
- Two stage process:
  1. Project Outline stage
  2. Full Proposal stage
- Max. project duration of 3 years
- Expected number of grants per year is 15 (Female PIs will be encouraged)



# TTSF – Technology Transfer Support Fund

- Individual Grant Value between Rs. 7.5 -20 Million
- Joint Industry-Academia projects
- Industry will get 50% of the budgeted resources they will put into the project
- Academic partner budget can not go beyond the matching funding (in kind) from the industrial partner
- Max project duration of 2 years
- Expected number of grants per year is 35 (Female participation will be encouraged)

# TTSF – Technology Transfer Support Fund

- The priority sectors for TTSF support include:
  - Telecommunications
  - Information Technology and its application in health, textile, agriculture and agri-business such as dairy and horticulture
  - Engineering sciences, including microelectronics, water, power, energy and fleet management
  - Biotechnology
  - Materials sciences, for example nano-technology
- Single stage process:
  1. Full Proposal submission

# NRPU – National Research Program for Universities

- Individual Grant Value between PKR 5 – 20 Million
- Allocation of Budget for the two themes:
  - Basic Research = 60%
  - Applied Research = 40%
- PI can only hold one grant at a time in NRPU
- Demonstration of the strategic relevance and impact of the proposed research to Pakistani industry and/or society will be considered a merit
- Max. project duration of 3 years
- Expected number of grants per year is 100
- Single stage process:
  1. Full Proposal submission

# ICRG – Innovative and Collaborative research Grant

- Individual Grant Value upto Rs. 50 Million
- Joint Pak-UK collaborative academic projects
- Key Areas:
  - Medical and Allied Health Sciences
  - Energy (generation, distribution and conservation)
  - Climate Change
  - Artificial Intelligence
  - Robotics
  - Nano science
  - Big Data – Cloud Computing
  - Social Sciences
- Two stage process:
  1. Project Outline stage
  2. Full Proposal stage
- Max project duration of 3 years
- Expected number of grants is 6 (Female participation will be encouraged)

# Agenda

- R&D Framework
- Scientific Review Panels

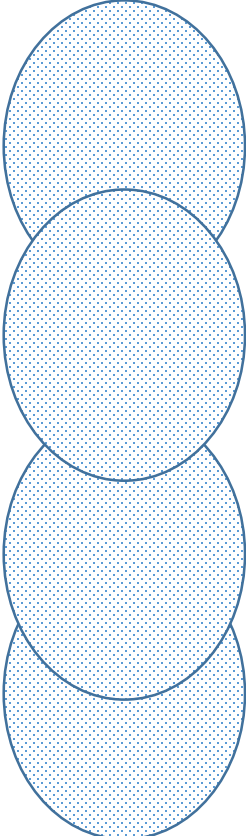
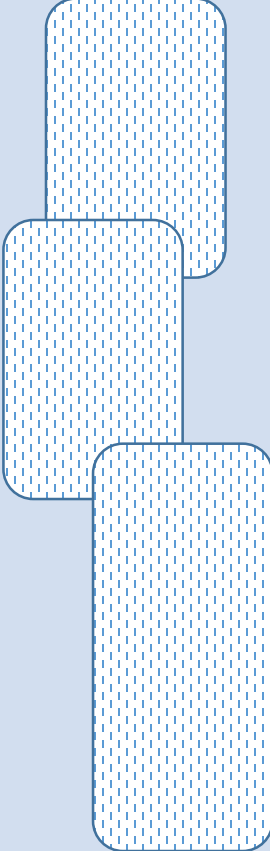
# Scientific Review Panels

- The objective of the proposed scientific review panels is to ensure quality of assessment, transparency, objectivity and efficiency.
- The following review panels belonging to different disciplines are being constituted:
  1. Agriculture Sciences
  2. Arts and Humanities
  3. Biological and Health Sciences
  4. Management Sciences
  5. Education and Human Resource
  6. Engineering and Technology
  7. Mathematical and Physical Sciences
  8. Social, Behavioral and Economical Sciences

# Scientific Review Panels

- Mandate of the proposed review panels:
  - To carry out the assessment of various research grant applications submitted against different grant programs such as GCF, LCF, NRPU, TTSTF or other grants.
  - To carry out assessment of the different publications supported by HEC.
  - To advise HEC about the impact of the overall HEC research grant policies over the scientific community and help identifying the priority areas of research to their respective discipline.
- Composition of Each Panel
  - Led by a chair of impeccable stature appointed for 3 years tenure
  - Consists of 5-8 members that could be from academia, research organizations, or industry

# Scientific Review Panels

Disciplines/ Grant Calls	NRPU/ Publications	GCF	LCF	TTSF	ICRG
Agriculture Sciences					
Arts and Humanities					
Biological and Health Sciences					
Management Sciences					
Education and Human Resource					
Engineering and Technology					
Mathematical and Physical Sciences					
Social, Behavioral and Economical Sciences					
<b>Program Chairs</b>					



A green rectangular sign with rounded corners and a white border is mounted on two wooden posts. The sign features the words "Thank You" in a large, white, sans-serif font. The background is a bright blue sky filled with numerous white, fluffy clouds. The sign is positioned in the lower-left quadrant of the frame, angled slightly upwards and to the right.

**Thank You**