

# Cyber R&D Infrastructure

December 2, 2016

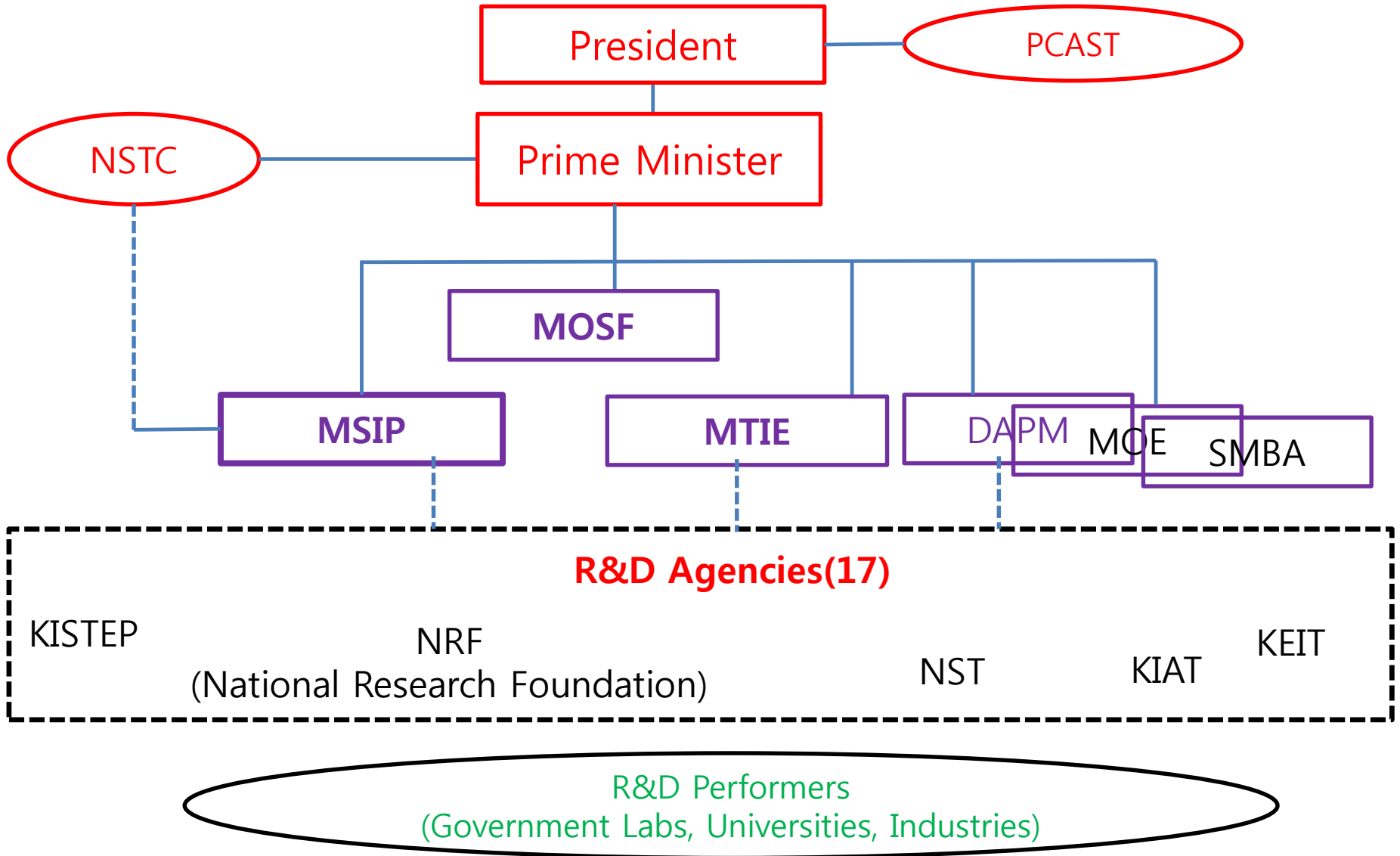
**Man Hyung Cho/Ph.D**  
**Professor of Hannam University**  
**mancho@hnu.kr**

Dr. Man Hyung Cho is a professor of public administration at Hannam University in Korea since 1992.

He graduated from Syracuse University with a doctoral degree majoring in public administration.

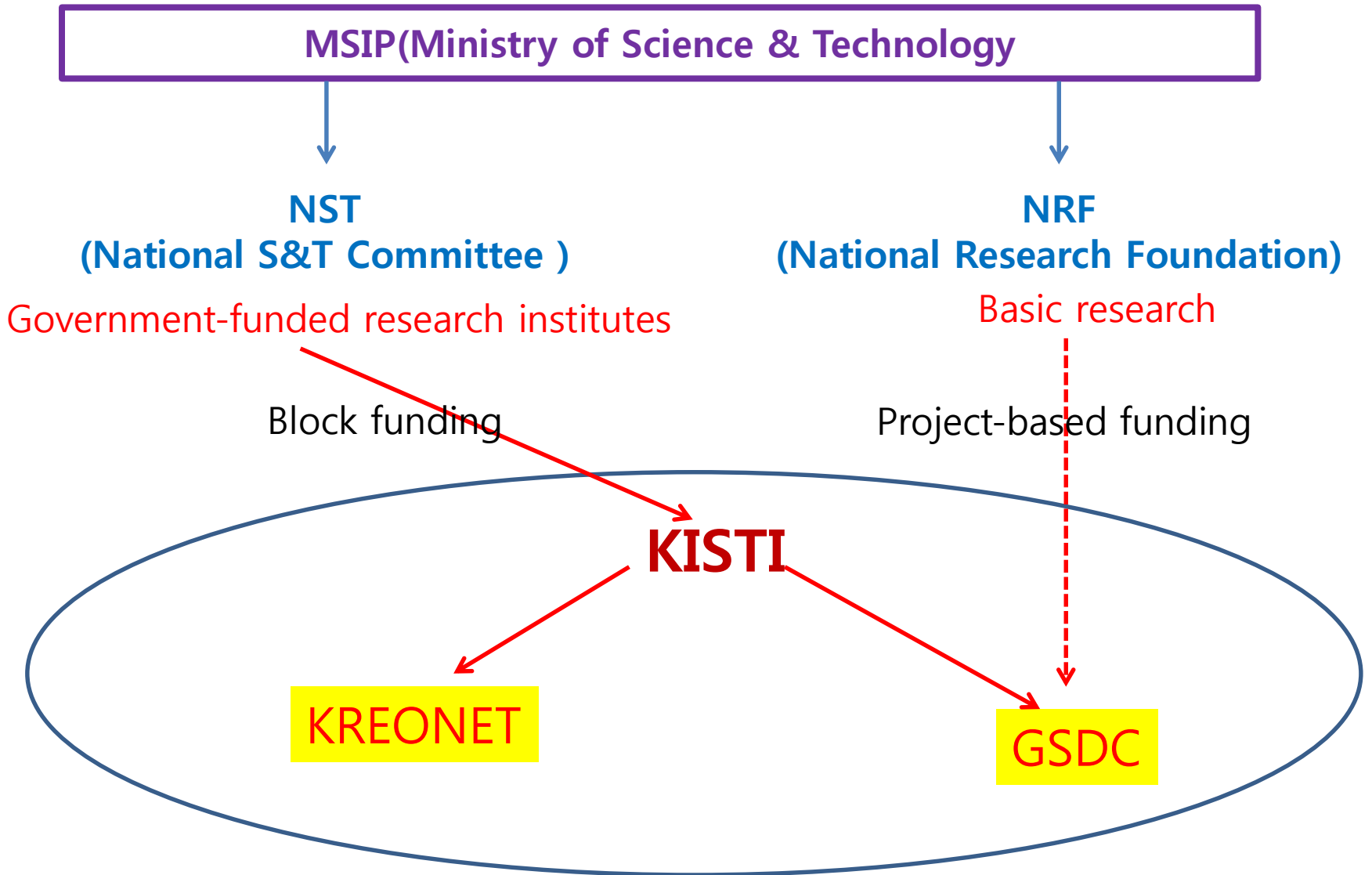
His research has focused on public policy specializing in science & technology policy. He has served as an member for a couple of government committees such as National Research Foundation

# S&T Policy Governance Structure



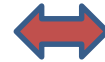
**MOSF = Ministry of Strategy & Finance**

# Funding Structure



**Research  
Communities**

ALICE  
CMS  
LIGO  
RENO  
Genetics  
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**KISTI  
Data Center**

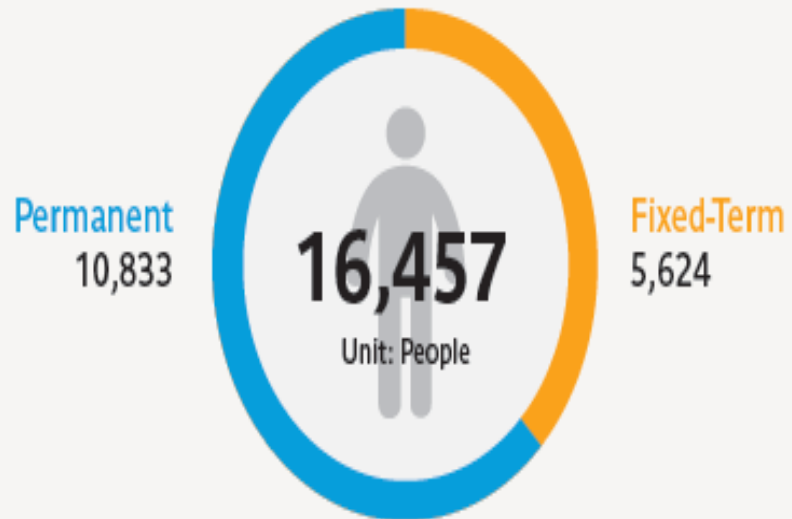
GSDC

# **Government-funded Research Institutes (GRI)**

**KIST is the first GRI in Korea  
25 GRIs in 2016**

1959. 02. 03 | Korea Atomic Energy Research Institute  
**1962. 01. 01 | Korea Institute of Science & Technology Information**  
1966. 02. 10 | Korea Institute of Science & Technology  
1974. 09. 13 | Korea Astronomy & Space Science Institute  
1975. 12. 24 | Korea Research Institute of Standards & Science  
1976. 05. 10 | Korea Institute of Geoscience & Mineral Resources  
1976. 09. 02 | Korea Research Institute of Chemical Technology  
1976. 12. 29 | Korea Electrotechnology Research Institute  
1976. 12. 30 | Electronics & Telecommunications Research Institute  
1976. 12. 30 | Korea Institute of Machinery & Materials  
1977. 08. 16 | Korea Institute of Energy Research  
1983. 06. 11 | Korea Institute of Civil Engineering & Building Technology  
1985. 02. 01 | Korea Research Institute of Bioscience & Biotechnology  
1987. 12. 31 | Korea Food Research Institute  
1988. 08. 01 | Korea Basic Science Institute  
1989. 10. 10 | Korea Aerospace Research Institute  
1989. 10. 12 | Korea Institute of Industrial Technology  
1994. 10. 10 | Korea Institute of Oriental Medicine  
1996. 03. 02 | Korea Railroad Research Institute  
2000. 01. 01 | National Security Research Institute  
2002. 01. 01 | Korea Institute of Toxicology  
2005. 10. 01 | National Fusion Research Institute  
2007. 04. 27 | Korea Institute of Materials Science  
2010. 01. 01 | World Institute of Kimchi  
2013. 02. 01 | Green Technology Center

## Human Resources (2013)

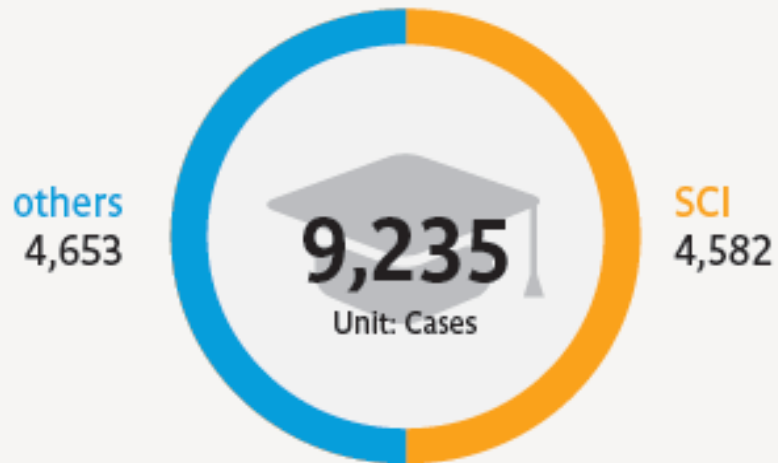


## Budget (2013)

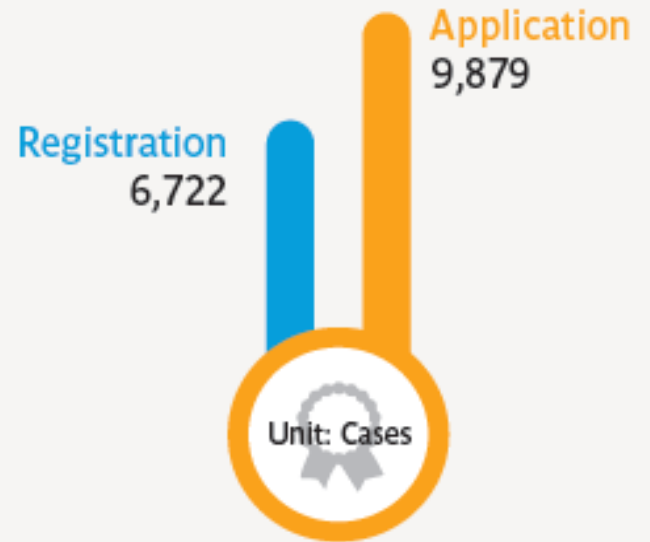




### Publication (2013)

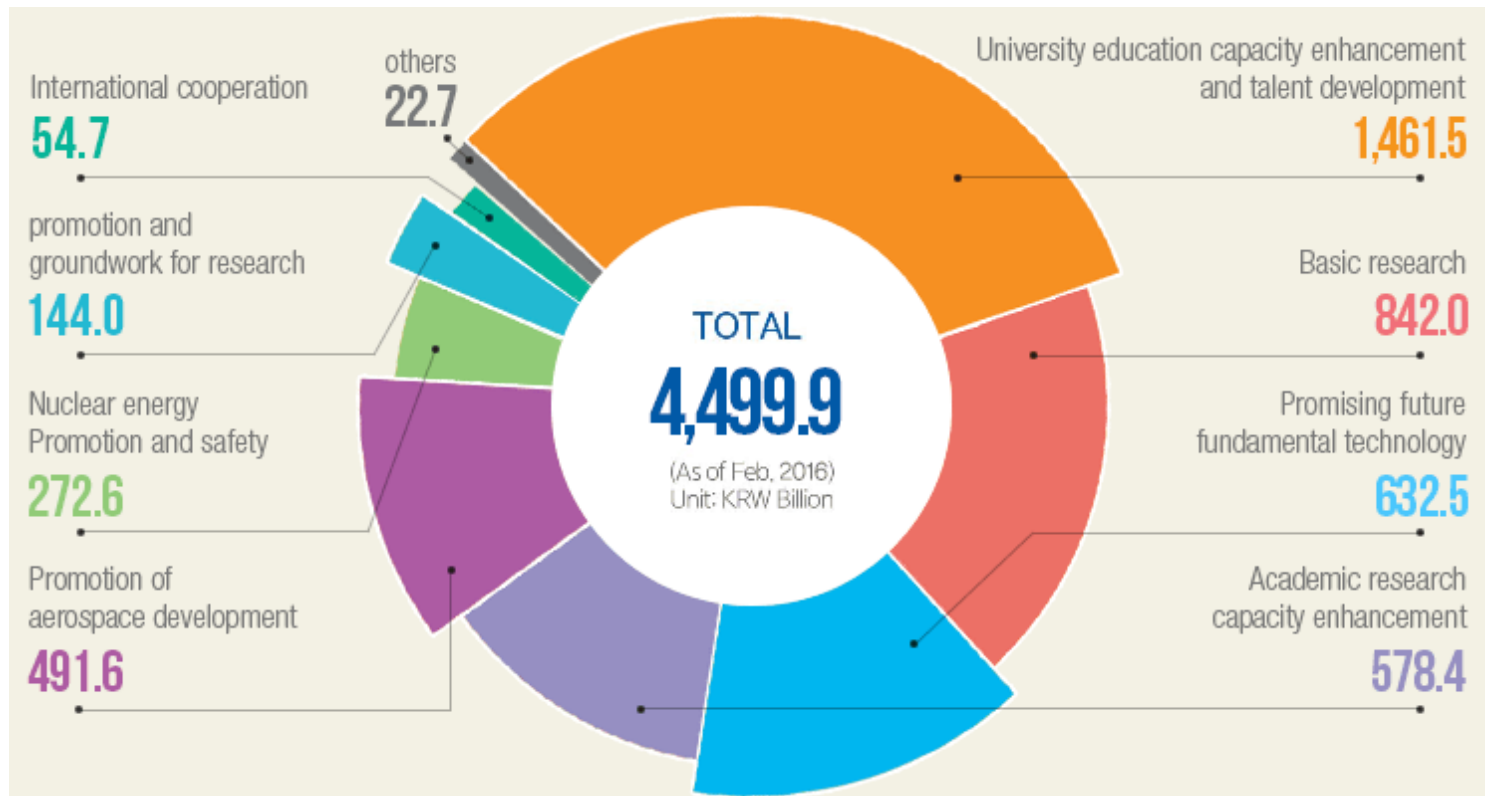


### Patent (2013)



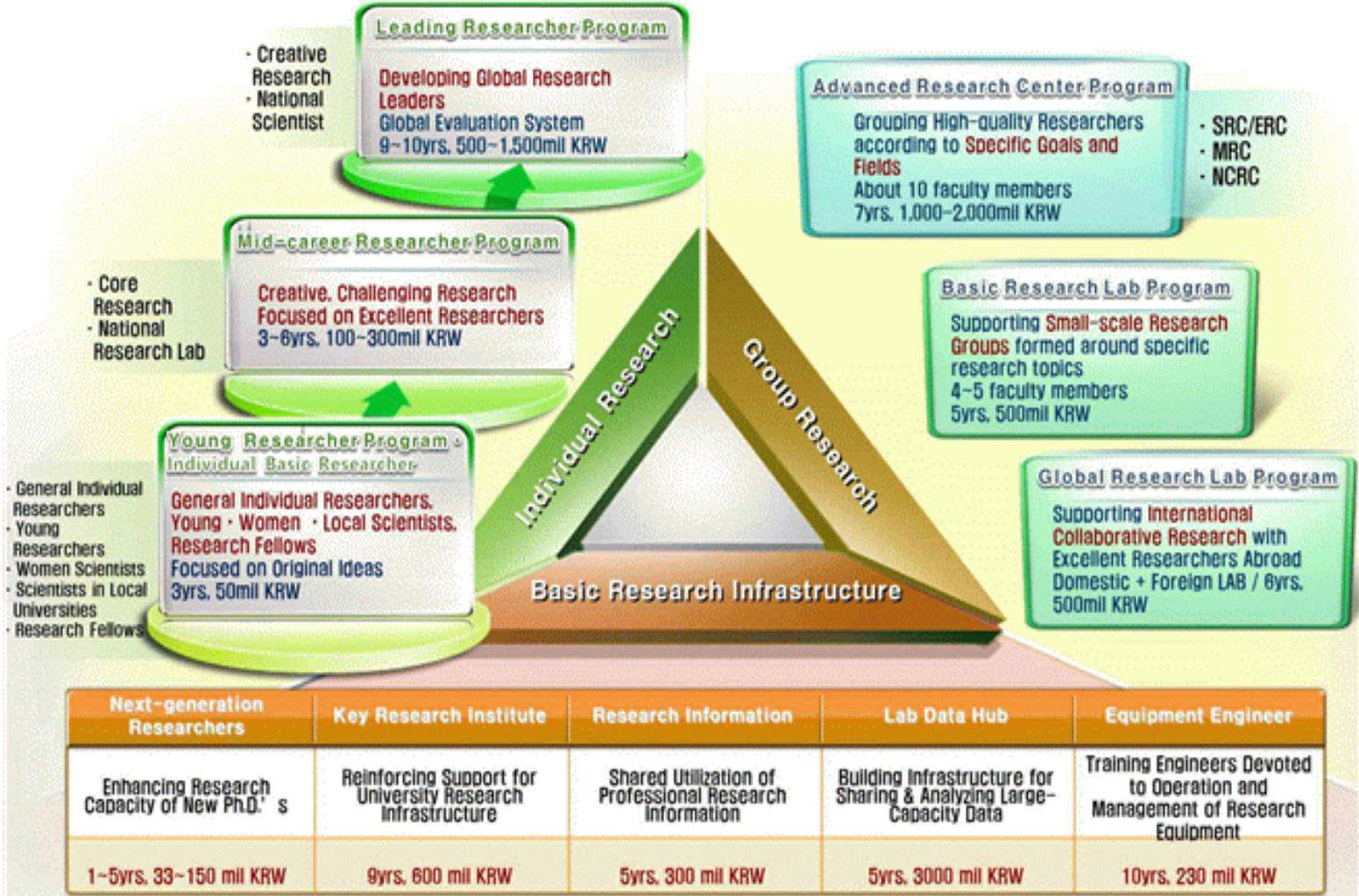
# Support for University Research

## Budget (NRF, National Research Foundation of Korea)



4,499,9 KRW bil. = 4 USD bil.

# NRF Programs for Basic Research



(In one million KRW)

Program Title	2014 Budget (A)	2015 Budget (B)	Increase/decrease	
			B-A	%
<b>Total</b>	<b>1,028,033</b>	<b>1,080,792</b>	<b>52,759</b>	<b>5.1%</b>
<b>【Individual Research】</b>	<b>832,600</b>	<b>881,781</b>	<b>49,181</b>	<b>5.9%</b>
○ <b>Young Researcher</b>	<b>141,937</b>	<b>142,500</b>	<b>563</b>	<b>0.4%</b>
– Young Researchers	103,860	105,860	2,000	1.9%
– Women Scientists	28,077	30,990	2,913	10.4%
– Young-Mentoring	10,000	5,650	△4,350	△43.5%
○ <b>Individual Basic Researcher</b>	<b>290,500</b>	<b>294,250</b>	<b>3,750</b>	<b>1.3%</b>
– General Individual	230,750	237,050	6,300	2.7%
– Less Favored	1,500	1,250	△250	△16.7%
– Research Fellows	33,250	31,200	△2,050	△6.2%
– Scientists in Local Universities	25,000	24,750	△250	△1.0%
○ <b>Mid-career researcher</b>	<b>348,795</b>	<b>388,295</b>	<b>39,500</b>	<b>11.3%</b>
– Core Research	192,573	229,992	37,419	19.4%
– National Research Lab	156,222	158,303	2,081	1.3%
○ <b>Leading Researcher</b>	<b>51,368</b>	<b>56,736</b>	<b>5,368</b>	<b>10.5%</b>
– Creative Research	46,368	51,736	5,368	11.6%
– National Scientist	5,000	5,000	–	–
<b>【Group Research】</b>	<b>146,485</b>	<b>148,864</b>	<b>2,379</b>	<b>1.6%</b>
○ <b>Advanced Research center</b>	<b>103,471</b>	<b>105,850</b>	<b>2,379</b>	<b>2.3%</b>
– SRC	26,633	19,951	△6,682	△25.1%
– ERC	33,488	33,303	△185	△0.6%
– MRC	29,950	33,100	3,150	10.5%
– NCRC	13,400	14,200	800	6.0%
○ <b>Basic Research Lab</b>	<b>20,500</b>	<b>20,500</b>	–	–
○ <b>Global Research Lab</b>	<b>22,514</b>	<b>22,514</b>	–	–
<b>【Basic Research Infrastructure】</b>	<b>48,948</b>	<b>50,147</b>	<b>1,199</b>	<b>2.4%</b>
○ <b>Fostering Next-Generation Researchers</b>	<b>17,190</b>	<b>16,850</b>	<b>△340</b>	<b>△2.0%</b>
– Post-doctoral training in Korea	3,960	3,300	△660	△16.7%
– Post-doctoral training abroad	1,980	1,650	△330	△16.7%
– Presidential Post-doctoral Fellowship	11,250	11,900	650	5.8%
○ <b>Key Research Institute</b>	<b>23,680</b>	<b>25,400</b>	<b>1,720</b>	<b>7.3%</b>
○ <b>Utilization of Research Information</b>	<b>2,280</b>	<b>2,167</b>	<b>△113</b>	<b>△5.0%</b>
○ <b>Global Lab Data Hub</b>	<b>3,028</b>	<b>2,829</b>	<b>△199</b>	<b>△6.6%</b>
○ <b>Research Equipment Engineer Training</b>	<b>2,770</b>	<b>2,901</b>	<b>131</b>	<b>4.7%</b>