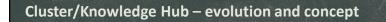


# OUTLINE

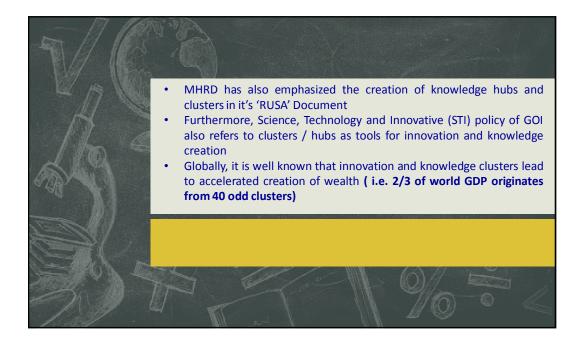
- Evolution & Concept
- Planning Commission Initiatives
- Motivation for Chandigarh cluster
- Meeting up
- Mission Statement

- CRIKC A broad outline
- Phases I, II and III
- Lectures summary
- Proposal for MHRD
- Starting in right earnest



- 21<sup>st</sup> century Innovation and Knowledge creation are the key drivers of development. The competitiveness of any country is going to be judged by its knowledge resource generation capacities.
- To accelerate development of India, it is imperative that high impetus be given to policies and actions which stimulate innovations address contemporary issues tuned specifically to ameliorate the problems being faced by our country.
- National Knowledge Commission (NKC) (constituted June 2005)
- Sam Pitroda Report Underlined the development of excellence in educational and research institutions facilitating innovation and knowledge creation.





## **MOTIVATION FOR CHANDIGARH CLUSTER**

- The idea of having knowledge cluster/hub has its genesis in the 'Narayana Murthy Report' April 2012, commissioned by Planning Commission on Corporate Participation in 'Higher Education'.
- Chandigarh provides an ideal location for creating a knowledge cluster or hub, as there are a large number of well established institutions within a radius of 8 10 kms.
- **Panjab University** one of the oldest universities in India and renowned for its contribution towards higher education and research with an increasing list of eminent luminaries as alumni
- Post Graduate Institute of Medical Education & Research (PGIMER) Asia's premier medical education and research institute. Well recognized for its health services, education, research and training facilities, globally.

The above are nationally and internationally known for their contributions too.

## Just to name a few....

#### 1. Panjab University

- 2. PGIMER Post Graduate Institute of Medical Education & Research
- 3. CSIO Central Scientific Instrumentation Organization
- 4. IMTECH Institute of Microbial Technology
- 5. IISER Indian Institute of Science Education & Research (Mohali)
- 6. NIPER National Institute of Pharmaceutical Education & Research
- 7. NABI National Agri Food Biotechnology Institute

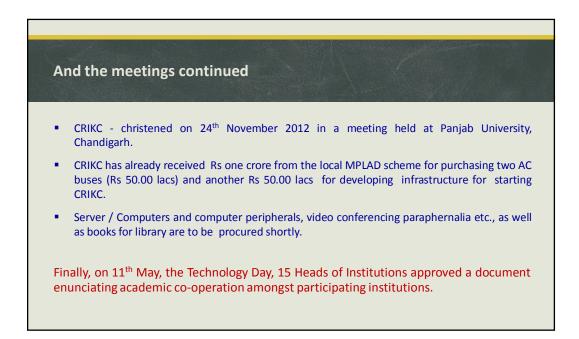
- 8. TBRL Terminal Ballistic Research Laboratory
- 9. ISB Indian School of Business (Mohali)
- 10. PEC Punjab Engineering College of Engineering and Technology
- 11. IIT ROPAR
- 12. National Institute of Technical Teachers' Training and Research
- 13. Govt. Medical College & Hospital
- 14. Institute of Nano Science & Nano Technology (Mohali)
- 15. Centre for Agro Processing (Mohali)

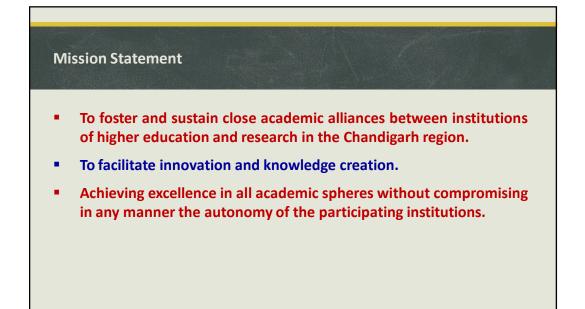
Broadly these cover higher education and research in medical science, engineering and physical sciences. Also there are many industrial units related to some of the research activities around Chandigarh.

For example					
Chandigarh has	all types of institutes				
Educational:	PU, PEC, IISER, NIPER, ISB, NITTTR				
Research:	CSIR : <i>CSIO, IMTECH;</i> DST: <i>NSNT;</i> DBT: <i>NABI, BPU;</i> DRDO: <i>TBRL;</i> Min. Petroleum & Industry: <i>NIPER</i>				
Medical:	PGIMER, GMCH				
Engineering:	PEC, IIT-Ropar				
Industry:	Baddi (H.P.); Cll (North) HQ at Chd.				
Further Chandig	arh region is rich in intellectual resources,				
Over 40 Fellow	ws (INSA, FASc, FNASc) with over 500 active scientists				
CHASCON; Chi	ildren Science Congress; National/International Conferences/WKSP/ Seminars				
<ul> <li>Chandigarh ap International /</li> </ul>	part from being well planned , is also well connected by Road and Air. Soon, we"ll have Airport				

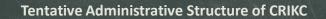
## Chronology of meetings leading to formation of CRIKC

July 25 <sup>th</sup> , 2012	Visit of Mr Ashwani Kumar, Honorable Minister of State for Science and Technology, Govt. of India.
August 21 <sup>st</sup> 2012	At : NABI (Mohali) on Bio Science Cluster
August 25 <sup>th</sup> 2012	At: PU Guest House
October 2 <sup>nd</sup> 2012	At the, Director's Office, PGIMER, Chandigarh
October 21st 2012	At : IIT Ropar
November 1 <sup>st</sup> 2012	At: ISB (Mohali )Convened by Shri Pawan Agarwal, Advisor Higher Education Planning Commission
November 10 <sup>th</sup> 2012	At: CSIO Chandigarh on Bio cluster
November 24 <sup>th</sup> 2012	At: PU Chandigarh as a follow up to 1 <sup>st</sup> November Meeting.

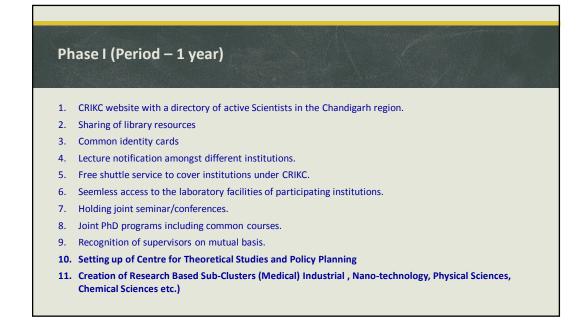








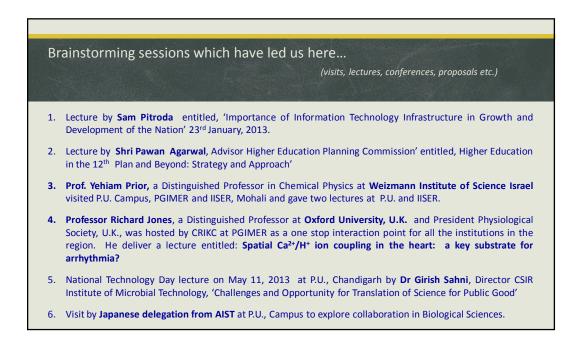
- Entire governance of CRIKC would be vested with the Advisory Committee consisting of the <u>Heads of participating institutions</u>.
- Advisory Committee will be chaired by the Vice-Chancellor, PU, Chandigarh.
- Co-ordinators: Prof. M. Gupta and Prof. R. Tewari of PU, Chandigarh.
- Core office of CRIKC will be located on the PU Campus.
- Scommittees for operational functioning of CRIKC:
- (i) Finance committee
- (ii) Academic committee
- (iii) Administrative committee



# Phase II (2<sup>nd</sup> yr)

- 1. A few joint programs in Bio-sciences and Nano-science
- 2. Common physical facilities to be created
- 3. Joint pre-PhD courses
- 4. Facility of spending a few months in the participating institutions on mutual basis
- 5. Incentive scheme enabling Ph.D. holder college teacher to take sabbatical leave to work with faculties/scientists in CRIKC institutions.
- 6. Create/provide facilities to attract faculty members from abroad to spend sabbatical leave period in CRIKC institutions : Possible partners in this initiative, TCS and Tata Trusts (Discussion with Mr. F.C. Kohli, Emeritus Chairman TCS).
- 7. Initiation of Industry-Academia interaction
- 8. Joint admission of PhD students in bio-stream
- 9. Refresher courses / summer school / college teachers





7.	Director British Council in India, <b>Mr. Rob Lynes</b> , has already visited PU to explore CRIKC as a facilitator to promote interaction between British Universities and Chandigarh region institutions.
8.	This is being followed by another visit of <b>Mr. Rob</b> on 24 <sup>th</sup> July to Chandigarh.
9.	Panjab University along with CRIKC is going to host 79 <sup>th</sup> annual meeting of Indian Academy of Sciences from November 8 <sup>th</sup> to 10 <sup>th</sup> at PU Chandigarh with the activities on 9 <sup>th</sup> and 10 <sup>th</sup> to be held in other institutions associated with CRIKC, viz., CSIR-IMTECH and IISER Mohali.
10.	CRIKC participation in workshop held at IIT Ropar on 2 <sup>nd</sup> July, 2013. The theme of the workshop "Eradicating the problem of open field burning in India: turning agricultural waste into energy", emerging out of in IIT Ropar - Aston University U.K. initiative.
11.	Several proposal amongst the CRIKS institution in the offing:
	i) Bio-Agro proposal submitted by NABI and DBT.
	ii) Centre for excellence in detonic (CED) by TBRL, Mohali.
	iii) Creation of cold room facility by Snow and Avalanche Study Establishment, (SASE – DRDO).

## To start CRIKC activities in right earnest, Initiative taken by Panjab University

- Identification of sufficient space for its immediate needs i.e. Video Conference facility, library, space for visitors, conference room etc.
- Tender for shuttle service busses to be floated shortly

- Equipment procurement for video conference facility and library already on its way
- Hassel free registration of Ph.D. candidates from CRIKC institutions
- For immediate commencement of CRIKC activities funding required as follows:

Funds required						
SR. NO.	HUMAN RESOURSE REQUIREMENT	AMOUNT (per annum)				
01	PROJECT OFFICER / SR. SCIENTIFIC OFFICER	6 lakh (50,000 p.m.)				
02	PROJECT ASSISTANT / SCIENTIFIC ASSISTANT	3.6 Lakh (30,000 p.m)				
03	JUNIOR ASSISTANT / DATA ENTRY OPERATOR	2.4 Lakh (20,000 p.m)				
04	3 BUS DRIVERS	9 Lakh @ 25,000 pm. each				
	TOTAL	21 Lakhs				
	RECURRING EXPENSES	AMOUNT (per annum)				
01	DIESEL & MAINTENENCE OF BUSES	30 Lakhs				
02	FUNDS FOR HOSTING VISITING SCIENTISTS	15 Lakhs				
03	TRAVEL FUNDS	10 Lakhs				
04	SEMINARS/CONFERENCES/TRAINING PROGRAMMES	10 Lakhs				
05	AMC & MAINTENENCE	4 Lakhs				
06	CONTIGENCY FUND (Office infrastructure, consumable,	5 Lakhs				
	stationary, postage, electricity, water charges, misc. etc.)					
	GRAND TOTAL FOR 1 <sup>ST</sup> YEAR	1 CRORE				
	FOR THREE YEARS	3 CRORES				



