National Child Data Centre (NCDC) Feasibility Study - Inception Report

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Introduction

June 2006 → **National Child Development Research Center (NCDRC)** was established by the Cabinet as a <u>national reference center</u> for research and development on Early Childhood Care and Education (ECCE) in Malaysia → NCDRC's core function is to develop a **national child database** to facilitate in <u>Reviewing and Drafting of national legislations on ECCE</u>, <u>Child's Growth, Research and Development</u> and <u>all aspects of national ECCE programs</u>.

MEMORANDUM DARIPADA PERDANA MENTERI
(Dibentangkan Oleh Y.A.B. Dato Seri Haji Mohd. Najib Bin Tun Haji Abdul Razak, **Timbalan Perdana Menteri**)

"SETIAP ANAK PERMATA NEGARA" - MEMANTAPKAN ASUHAN DAN PENDIDIKAN AWAL KANAK- KANAK

TUJUAN

Memorandum ini bertujuan memohon Jemaah Menteri menimbang dan bersetuju:

(d) supaya Pusat Penyelidikan dan Pembangunan Kanak-kanak di Universiti Pendidikan Sultan Idris (UPSI) dijadikan Pusat Rujukan Kebangsaan bagi penyelidikan dan pembangunan kanak-kanak seperti di **Lampiran C**.

National Child Development Research Centre (NCDRC)

Responsibilities

The Cabinet meeting of June 21 2006 has agreed on principle the establishment of NCDRC at Universiti Pendidikan Sultan Idris (UPSI) as a national reference center with the task of conducting research in areas of child progress and development. Apropos the task described for this establishment, the NCDRC has also received the mandate from UPSI Board of Directors and the Ministry of Higher Education. NCDRC is to assist the PERMATA National Policy Council in carrying out a Pioneer Program encapsulated with the idea of "Every Child's a National Gem" which began in March 2007 and which will last for two years.

One of NCDRC's main foci is to build a database of children's profile in Malaysia. It will also build a directory of experts, professionals from diverse background but concerned with different aspects of child-development and well-being. Apart from that, the Center will also build a research database specific to child care and child-development from all institutions and agencies in the country.

Introduction

April 2012 — NCDRC submitted a proposal to EPU to seek allocation to established the NCDC. Numerous presentations to all relevant ministries took place gained full support.

Nov 2012 — EPU approved RM1.7 million to UPSI to embark on NCDC Feasibility Study with the objectives mentioned in the Term of Reference (TOR).

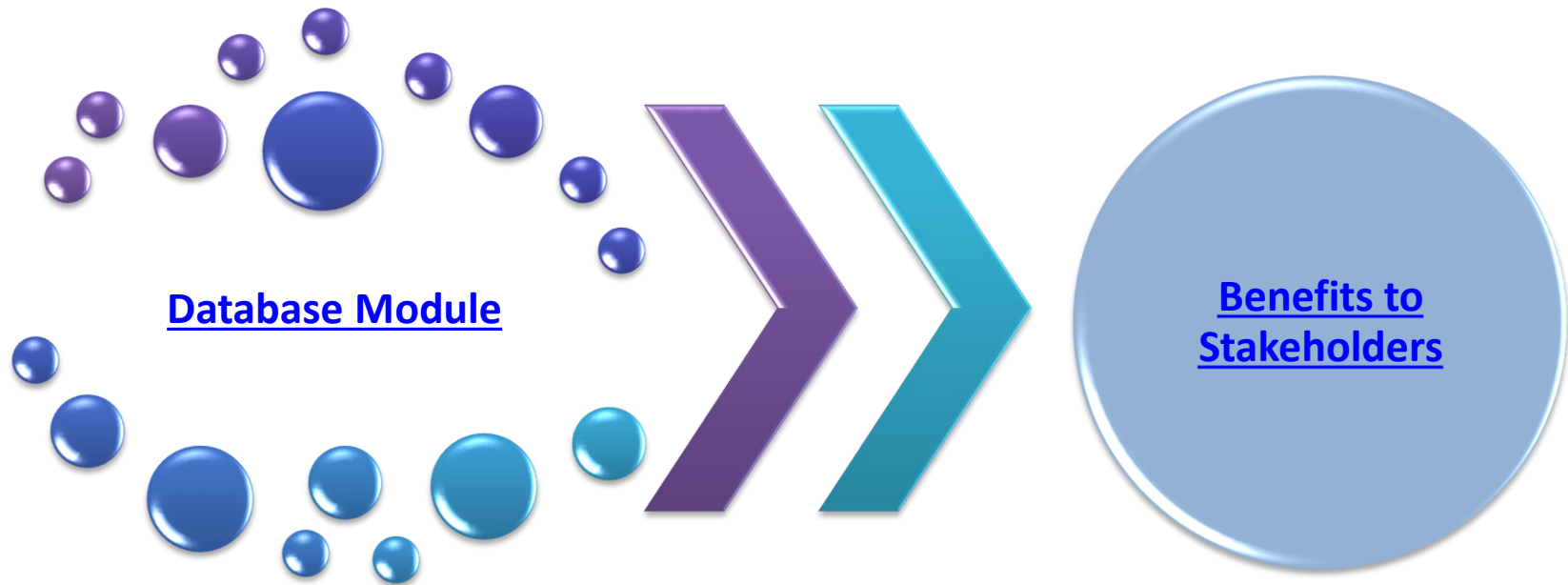**March 2013** — The study began, and scheduled to end in September 2013.

Proposed NCDC

National Child Data Centre (NCDC)

A **web-based integrated central depository system** focusing on **child development data** from **birth** to **6 years old** specifically and **critical supporting data** for ECCE industry and national socio-economic development, research and policy enhancement, public inclusivity awareness programs and empowerment in line with RMK-10.

Proposed NCDC

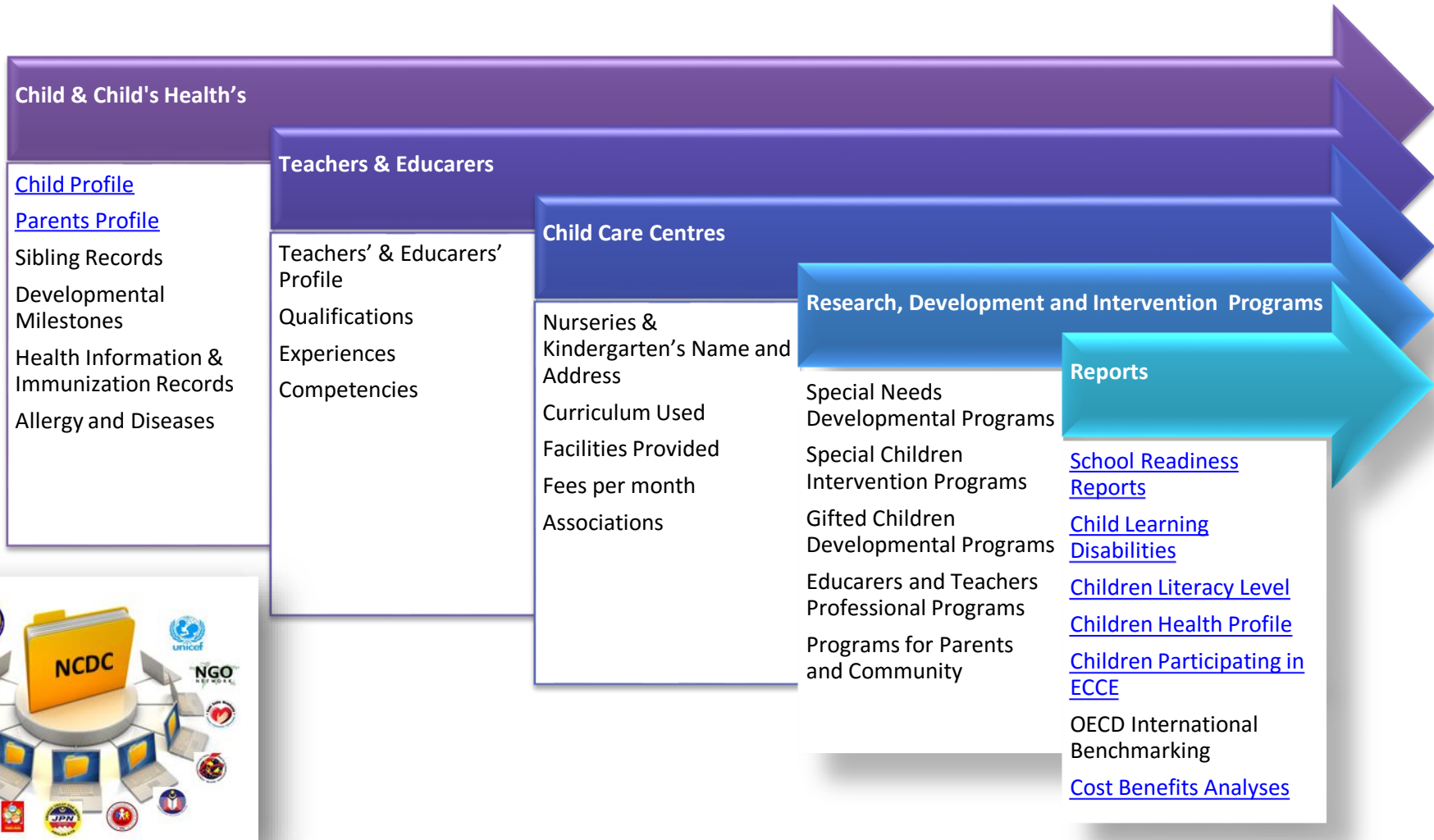**Database Module**

Benefits to Stakeholders

- **Child Data**
- **Teachers' & Educarers' Profile**
- **Operators Directory Profile**
- **ECCE Institution**
- **ECCE Community**

- **Government**
- **Teachers & Educarers**
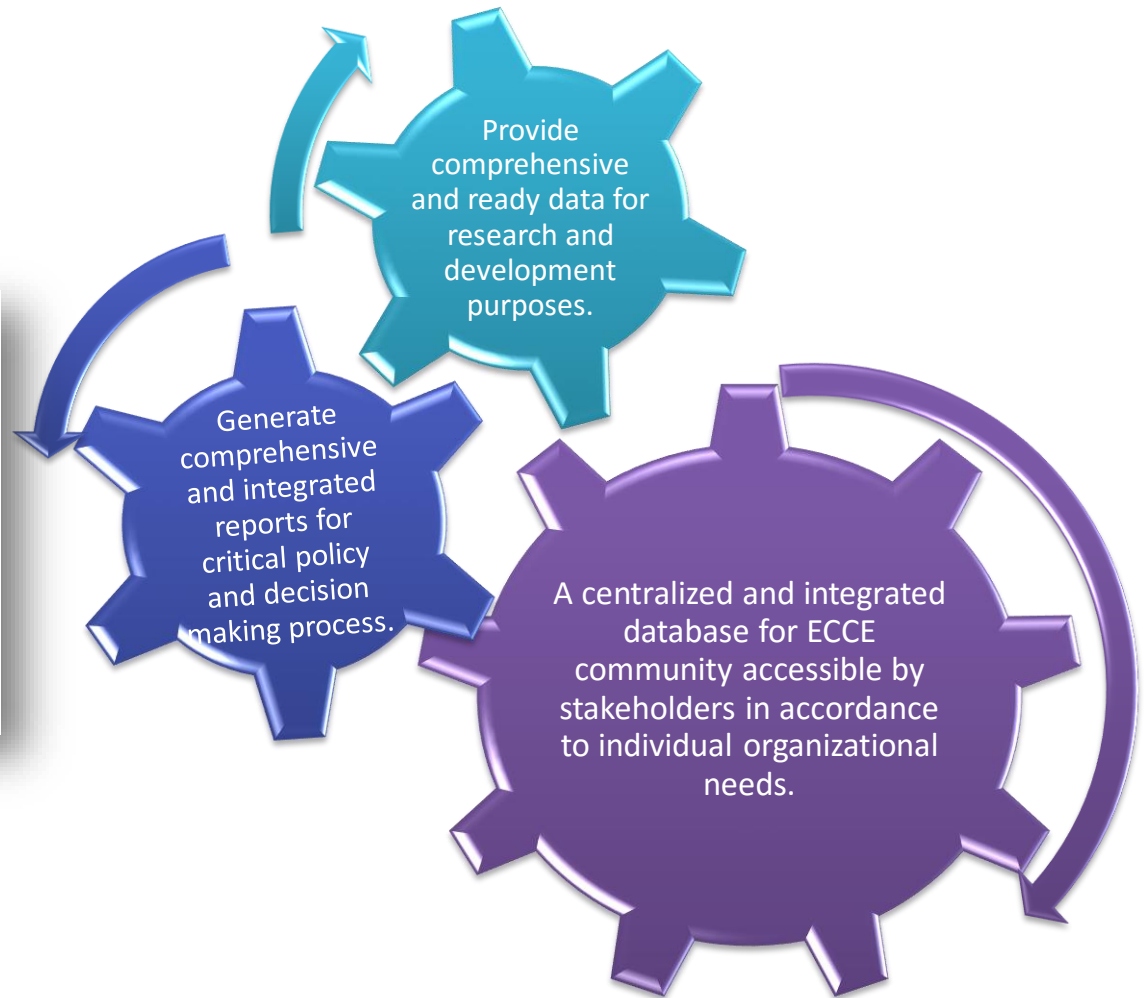- **Parent**
- **Child**
- **Community**

NCDC Expected Outcomes

Child & Child's Health's

Child Profile
Parents Profile
Sibling Records
Developmental Milestones
Health Information & Immunization Records
Allergy and Diseases

Teachers & Educarers

Teachers' & Educarers' Profile
Qualifications
Experiences
Competencies

Child Care Centres

Nurseries & Kindergarten's Name and Address
Curriculum Used
Facilities Provided
Fees per month
Associations

Research, Development and Intervention Programs

Special Needs Developmental Programs
Special Children Intervention Programs
Gifted Children Developmental Programs
Educarers and Teachers Professional Programs
Programs for Parents and Community

Reports

School Readiness Reports
Child Learning Disabilities
Children Literacy Level
Children Health Profile
Children Participating in ECCE
OECD International Benchmarking
Cost Benefits Analyses

NCDC Objectives

Provide comprehensive and ready data for research and development purposes.

Generate comprehensive and integrated reports for critical policy and decision making process.

A centralized and integrated database for ECCE community accessible by stakeholders in accordance to individual organizational needs.

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Feasibility Study Objectives

Analyze the feasibility of developing a comprehensive and integrated national child database.

1
- Identify strengths and weaknesses of existing ECCE records and data.

2
- Identify stakeholders' requirements in ECCE in relation to setting up of NCDC.

3
- Identify the requirements and benefits of developing NCDC.

4
- Evaluate current national policies on ECCE to support establishment of NCDC.

5
- Benchmark best practices for setting up of NCDC.

6
- Assess the financial and technical implications of setting up the NCDC.

7
- Identify the challenges in ensuring sustainability of NCDC including the potential of privatization.

Methodology

Instrumentation

- Survey Questionnaire (NCDC Inventory)
- Individual & Group In-depth Interviews (Interview Protocols)
- Documents & Records

Local Organisations/Centres + International Benchmarking

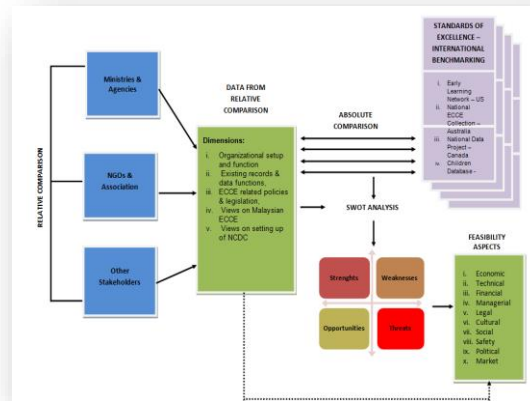| Ministries & Agencies | Canada & USA |
| NGOs & Associations | Ireland & Finland |
| Other Stakeholders | Singapore |

Sampling & Data Collection

Analysis of Data

Final Report

National Child Data Centre Feasibility Study Report 2013

NCDC

National Child Development Research Centre (NCDRC)
Sultan Idris Education University

Sampling and Data Collection

Local Organizations/Centres

Obtain quantitative and qualitative data on;
1. **Demographic Background**
2. **Organizational Setup & Functions**
3. **Existing Records & Data Functions**
4. **ECCE Related Policies & Legislations**
5. **Views on Malaysian ECCE**
6. **Views on Setting up of NCDC**

Clusters / Data Collection	NCDC Inventory	Individual Interview	Group Interview	Total
Ministries & Agencies	0	18	1	19
NGOs & Associations	0	13	0	13
Other Stakeholders	**12153**	0	14	12167
IT Group	0	0	12	12
Total	**12153**	**31**	**27**	**12,211**

Quantitative Data Distribution Status

NCDC Inventory	Teachers		Parents	
	Distribute	**Received**	**Distribute**	**Received**
Nursery	1004	698	2008	1396
Kindergarten & Preschool	3047	1890	6094	3780
Total	**4051**	**2588**	**8102**	**5176**

Grand Total distribute: 12153   Grand Total Received: 7764 (63%)

Sampling and Data Collection
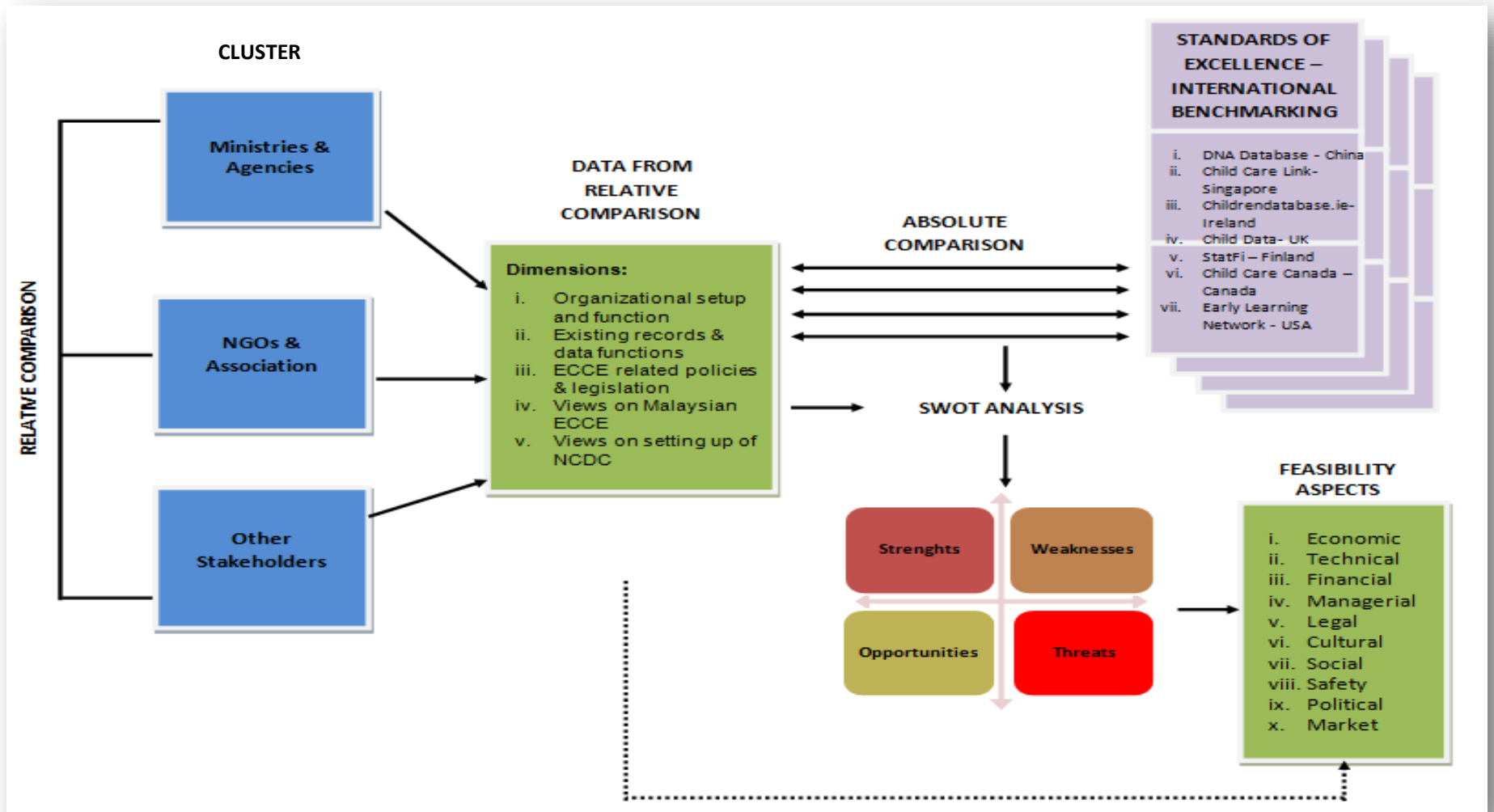
International Benchmarking

Obtain qualitative data to:

1. **understand organizational/centers setup and its roles to support ECCE sector in the country.**

2. **establish benchmark of setting-up databases, its challenges, key success factors and sustainability.**

3. **explore ECCE best practices in database management.**

Country		Organisation/ Centre	Child Databases
Singapore		Ministry of Education Ministry of Social Welfare	Child Care Link
Ireland/UK		Department of Children & Youth Affairs National Children's Bureau	childrendatabase.ie Child Data
Finland		Finnish National Board of Education, Ministry of Education & Culture	StatFin
Canada		Canada Resource & Research Unit (CRRU), University of Toronto	Child Care Canada
USA		Office of Child Development and Early Learning, Department of Education and Public Welfare	Early Learning Network (ELN)

Data Analyses Framework

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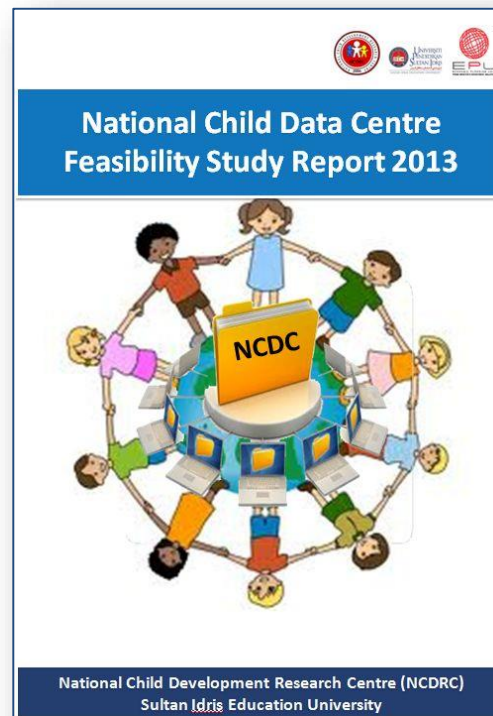| Introduction	Scope of Study	Scope of Final Report	Organizational Structure
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Scope of Final Report

Introduction and Background

Methodology of Feasibility Study

Data Analyses, Interpretations

Findings: Stakeholders need & requirements

National Child Data Centre Feasibility Study Report 2013

NCDC

National Child Development Research Centre (NCDRC)
Sultan Idris Education University

Financial & Technical implications

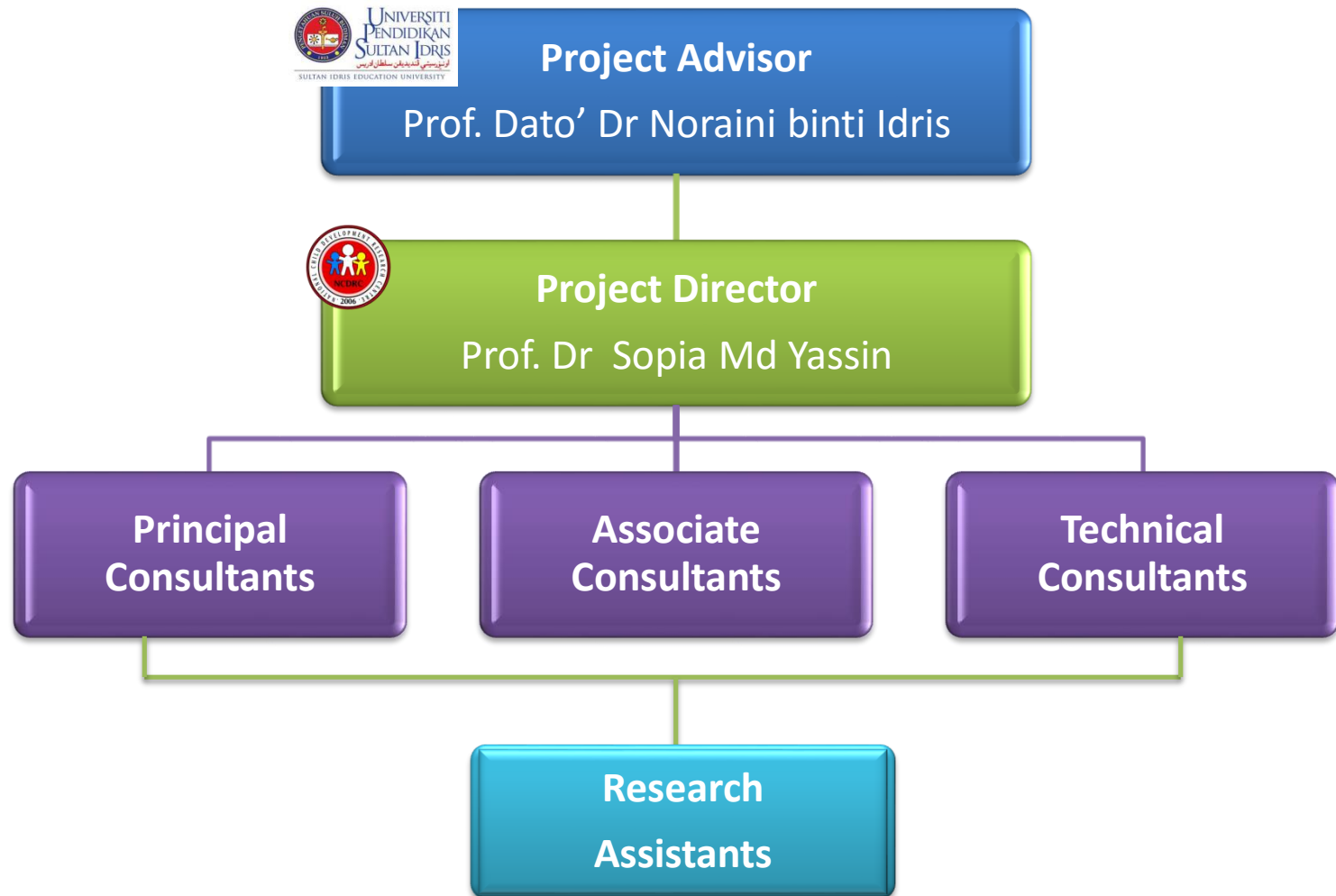**Sustainability & Privatization**

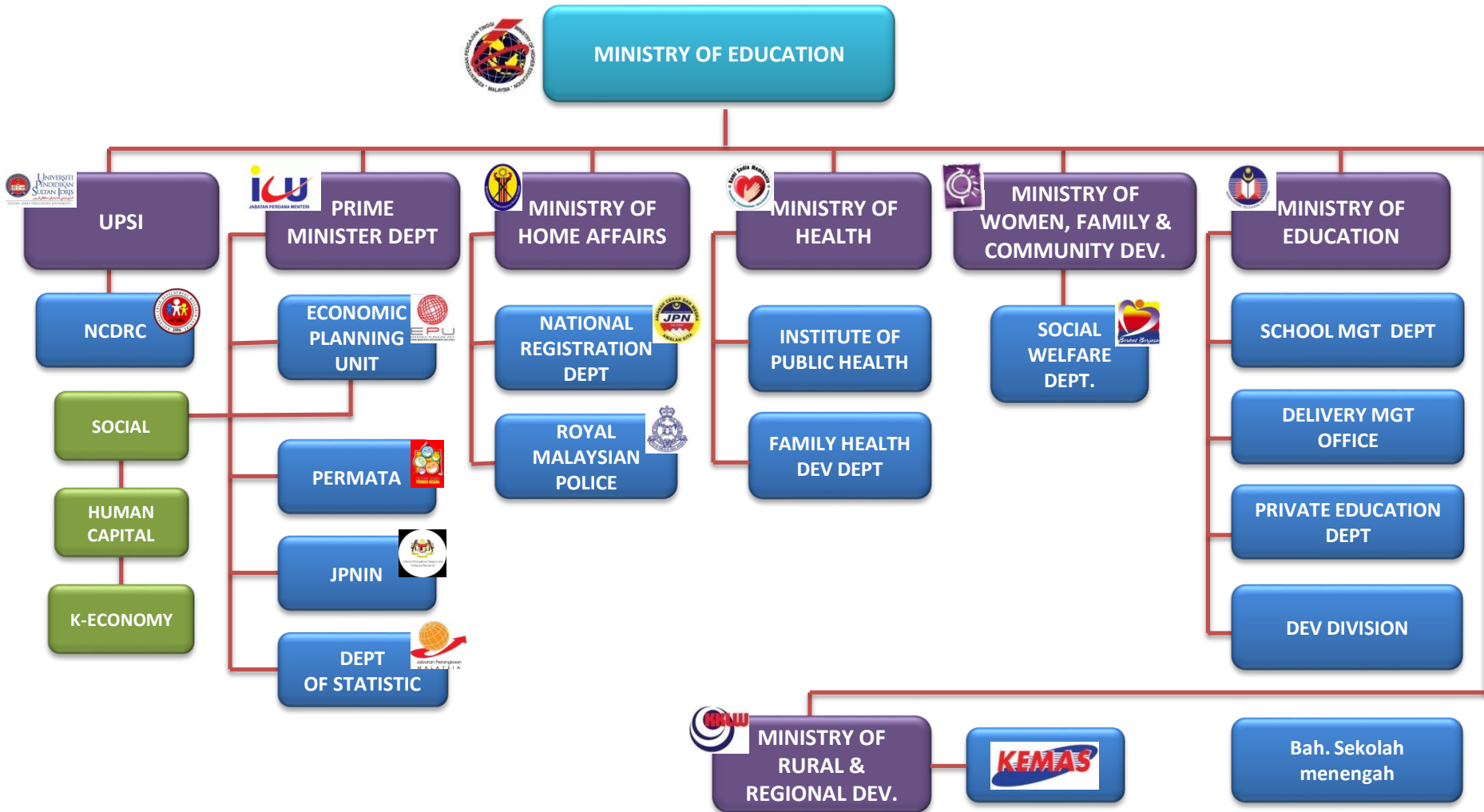**Benefits to Stakeholders**

Recommendations & Conclusion

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Feasibility Study Team

Project Advisor

Prof. Dato' Dr Noraini binti Idris

Project Director

Prof. Dr Sopia Md Yassin

Principal Consultants

Associate Consultants

Technical Consultants

Research Assistants

Project Steering Committee Members

Project Steering Committee's Roles & Responsibilities

1.
- Act as an advisory body to monitor progress of the study and it's financial status.
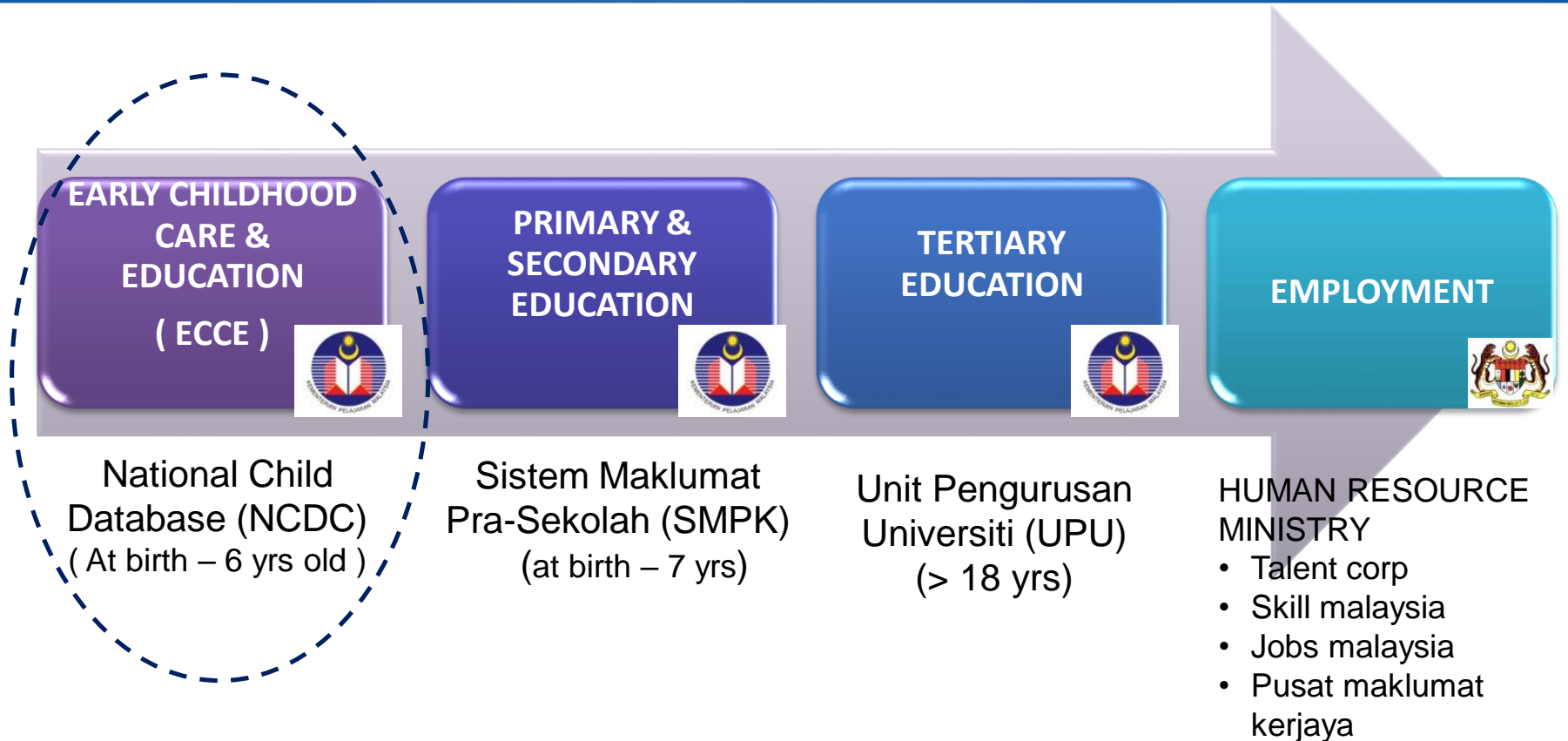
2.
- Provide support in overcoming challenges and issues faced throughout the study.

Conclusion

EARLY CHILDHOOD CARE & EDUCATION (ECCE)

PRIMARY & SECONDARY EDUCATION

TERTIARY EDUCATION

EMPLOYMENT

National Child Database (NCDC)
(At birth – 6 yrs old)

Sistem Maklumat Pra-Sekolah (SMPK)
(at birth – 7 yrs)

Unit Pengurusan Universiti (UPU)
(> 18 yrs)

HUMAN RESOURCE MINISTRY
- Talent corp
- Skill malaysia
- Jobs malaysia
- Pusat maklumat kerjaya

COMPLETE HUMAN CAPITAL DEVELOPMENT VALUE CHAIN

Thank You

Proposed NCDC

Database Module				
Child Data	**Teachers Profile (Public & Private Sector)**	**Operators Directory & Profile (Public & Private Sector)**	**ECCE Institutions**	**ECCE Community**
1. Child Profile 2. Child Health Records (eg: disabilities, etc.) 3. Parents Profile 4. Child Quarterly Progress, Development & Growth	1. Teachers ' & Educarers' Profiles 2. Qualification / Competencies 3. Experience	1. All public & private child care centers profile 2. Curriculum used 3. Fees 4. Facilities provided	1. Public universities and institutions 2. Private universities and institutions	1. ECCE Associations 2. ECCE Practitioners 3. ECCE Experts & Academicians

Proposed NCDC

Benefits to Stakeholders

Government:	Teachers :	Child:	Parents:	Community:
1. National ECCE policy & legislation improvement and refinement. 2. Clearer national child development plan 3. National Research 4. Education Enrollment Planning. 5. Human Capital Planning 6. Welfare & Community Development and Planning	1. Inventory of ECCE teachers & providers in Malaysia. 2. Measure and upgrade the qualification and competencies gaps amongst teachers. 3. Establish a standard quality among ECCE teachers. 4. Identify development programs to meet the national standard of quality ECCE teachers.	1. Comprehensive child profile report: • Individual child development milestone • Family profile • Health status • Child special status (gifted/ special attention) • Investment per child	1. Parent inclusivity in child development 2. Parenting program 3. Financial ability 4. Financial support	1. Population density 2. Housing facilities planning 3. Standard quality living space 4. Security requirement & environment