A Comparative Study of Early Childhood Education and Care in Selected High-Performing Countries

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Presentation Overview

Part I: Why Now: Study Rationale

Part II: Goals, Design, Products

Part III: Preliminary Findings

Part IV: Building Blocks: Integrating

the Findings

Part V: Using the Building Blocks:

Lessons for ECEC Globally

Part I

Why Now: Study Rationale

Around-the-Globe Trends



Around-the-Globe Trends



Globalization

Ease of transport and prevalence of inter-connected economies



Technology

Instant communication, handheld technology, and online learning



Economic and societal changes

Greater mobility within/across countries, inter-ethnic interactions



Gender roles

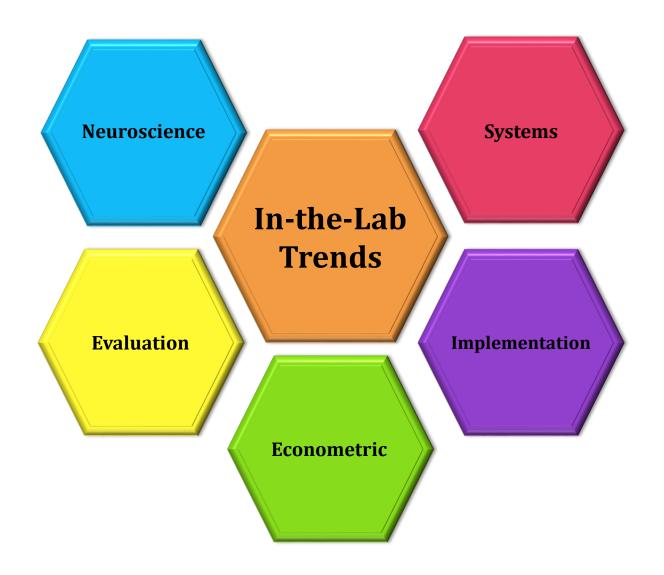
Women and girls taking on diverse leadership roles



Environment

Global concerns for the earth

In-the-Lab Trends





In-the-Lab Trends

Neuroscience

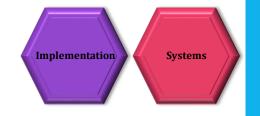
- The early years are THE formative period of development
 - Young children's brains grow to 80% of adult size by age 3 and to 90% by age 5
 - Young children grow faster and learn more in their early years than in any other period of life

Evaluation Science

- High-quality early childhood care and intervention can prevent negative effects from taking hold and have powerful benefits
- Strongest effects of high-quality care are found for children from families with the fewest resources and who are under the greatest stress

Econometric Science

- Investments in high-quality programs produce economic results
- These savings are due to a reduction in social costs for incarceration, welfare dependence, teen pregnancy, special education, and reduced grade retentions



In-the-Lab Trends

Implementation Science

 Implementation science strives to integrate research into policy and practice

Systems Science

- Contends that if you separate the parts from the whole, you are reducing the ability to achieve goals
- Applies to early childhood because there are so many moving parts that must be considered together

On-the-Ground Trends



On-the-Ground Trends

Increased investment

- Many of the 116 countries with data increased their commitment to education
 - 38 by 1% or more of GNP between 1999 and 2012 (UNESCO, 2015)

Growing public will

- Political and business leaders all extoll the benefits of ECE
- ECEC is routinely reported in the press (Gardiner & Gustafsson-Wright, 2016)

Plentiful efforts

 Much invention and experimentation, particularly for younger children (UNICEF, 2016)

Viable Models of Practice

 Development of national early learning frameworks helps support ECEC quality and equity in countries worldwide

New research and functional theories of change

 Methodologies for planning and evaluation promote social change in ECE, along with new theoretical models (Kagan et al., 2016)

In-the-Field Challenges

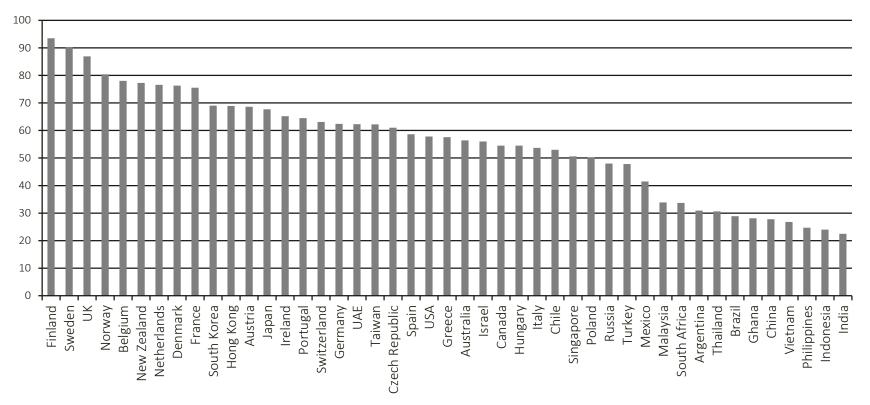


The Quality Challenge

- Services for young children are not of high quality
- Innocenti Report Card (UNICEF, 2008)
 - Out of 25 OECD countries surveyed, only 3 meet all 4 benchmarks pertaining to quality (Sweden, Iceland, and Denmark)
 - Only 2 countries meet 3 of the quality benchmarks (Finland and France)
 - Benchmarks for minimum level of staff training, minimum proportion of staff with higher level education, minimum staff-to-children ratio, and minimum level of public funding

The Quality Challenge

Presence of well-defined quality* guidelines to cover basic ECEC needs



• Quality is assessed according to: student-teacher ratio, average teacher wages, curriculum guidelines, teacher training, health and safety guidelines, date collection mechanisms, linkages, and parental involvement

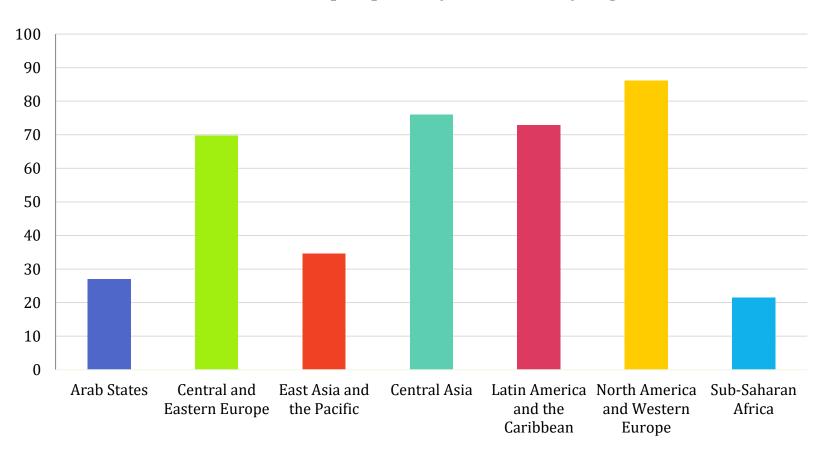
The Equity/Inclusivity Challenge

- Different kinds of inequities by:
 - Wealth
 - Children living in the poorest households are up to 10x less likely to attend ECEC than those in the richest (UNICEF, 2016)
 - Geographic region
 - Only 1 in 5 children in developing countries were participating in pre-primary education in 2011 (Global Partnership for Education, 2013)
 - Urban/rural residence
 - In two-thirds of OECD countries surveyed, enrollment in pre-primary education was lower in rural settings than in cities (OECD, 2017)

Equity/Inclusivity

Inequities by geographic region

Gross enrollment in pre-primary education by region, 2014

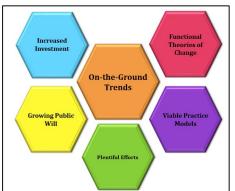


The Efficiency/Sustainability Challenge

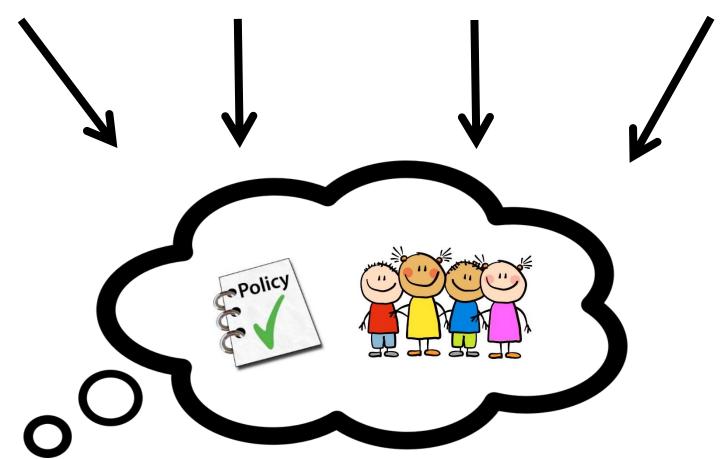
- Conflicting expectations, misaligned system requirements, and programmatic firewalls can create barriers to an efficient ECEC system
 - Results in service duplications and the diversion of funds from direct services
 - Lack of coordination across levels of government means investments are not operating as efficiently or effectively as possible
- Countries without sustained funding and governance are characterized by:
 - Fewer positive gains for children
 - More difficulty in establishing equitably distributed and inclusive programs
 - Lower levels of quality
 - More difficulty in implementing all infrastructure gears (Bertram, 2016)

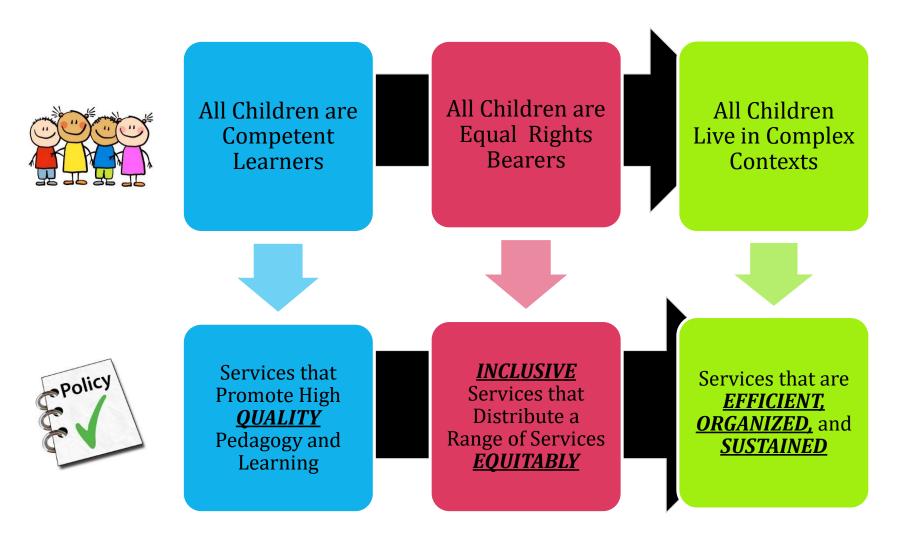












Why this Study, Now?

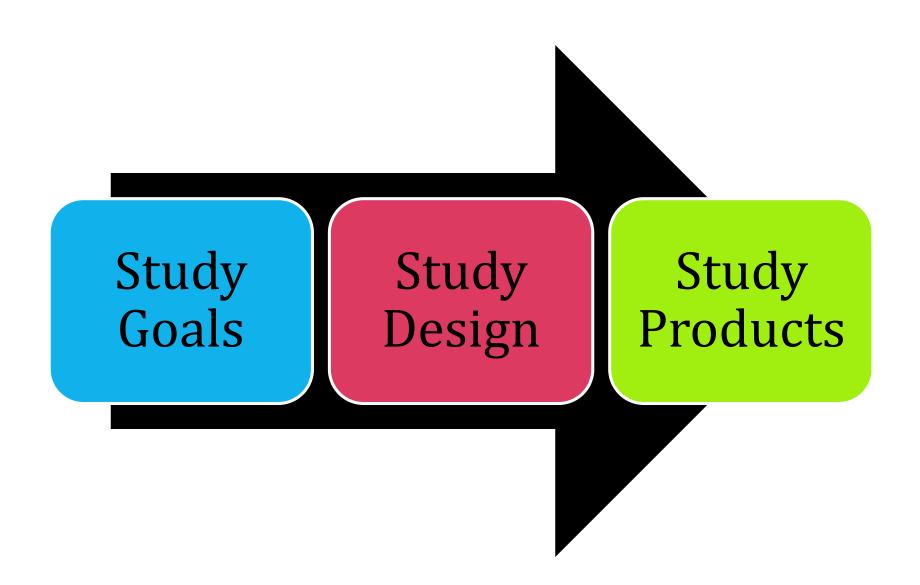
- It's a new era
 - Unprecedented global changes and ECEC investments make this the perfect time
 - Major challenge to optimize ECEC performance
 - International benchmarking assessments show wide inter- and intra-country variation in student performance
 - Need for fresh thinking
 - Pay more attention to quality, equity/inclusivity, and sustainability/efficiency

Three Areas of Focus



Part II

Goals, Design, Products



Study Goal: To Improve ECEC



1. Learn from Best Countries



2. Use State of the Art Theories and Knowledge



3. Produce a Quality Study



4. Create Useful Products for Diverse Audiences



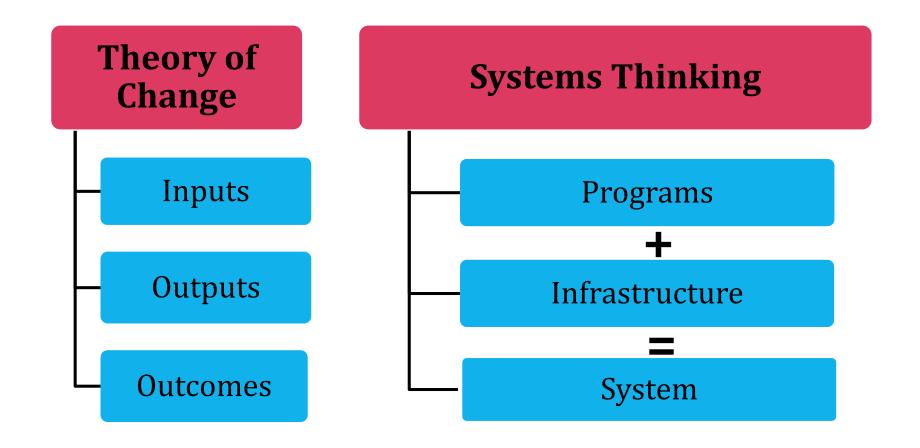
Goal 1: Learn from Best Countries

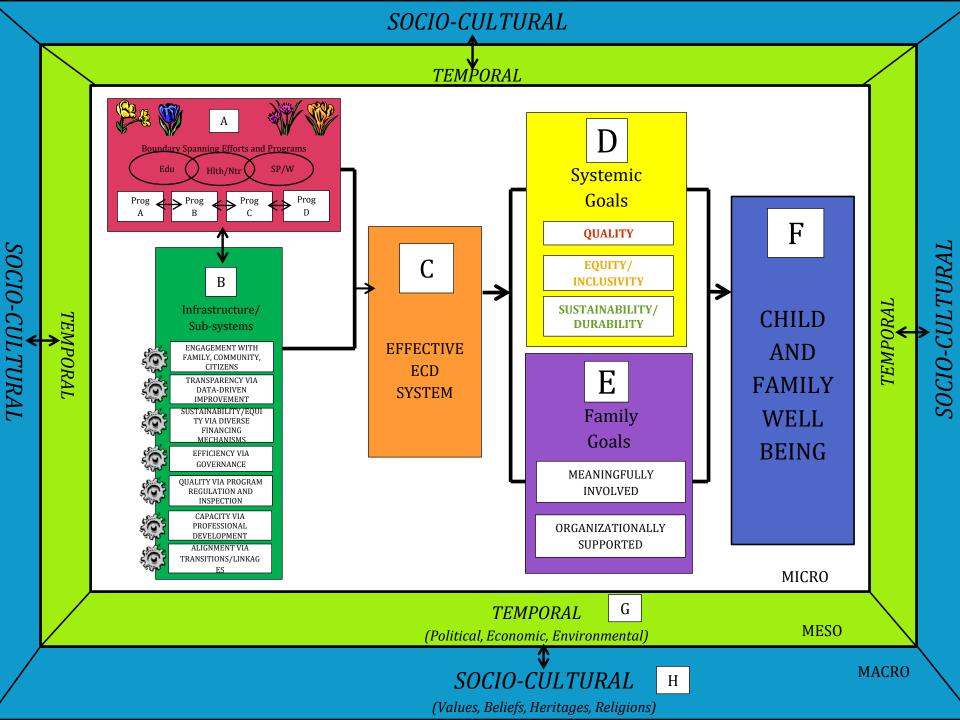
- Sought countries demonstrating academic excellence, geographical/cultural diversity, an ingenuity in ECEC systems
- Two data sets: (i) PISA, (ii) Economist Intelligence Unit Report

	PISA HIGH	PISA MEDIUM	PISA LOWER
ECONOMIST HIGH	NetherlandsSouth Korea	FinlandBelgium	 Denmark New Zealand Norway <u>UK</u> France
ECONOMIST MEDIUM	 Hong Kong Switzerland	GermanyAustria	• Czech Republic
ECONOMIST LOWER	Japan<u>Singapore</u>Taiwan	Canada<u>Australia</u>	



Goal 2: Use State of the Art Theories and Knowledge





The ECEC System

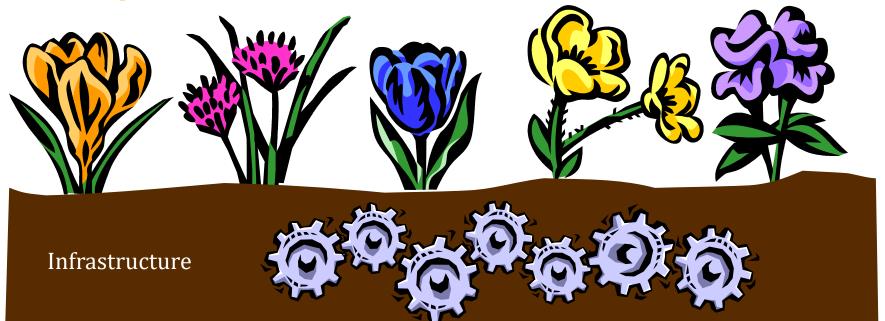
Family
Support
and Home
Visiting

Early
Childhood
Education
and Care

Health,
Nutrition,
and Mental
Health

Protective Services

Transition and Primary



Thinking About the ECEC System

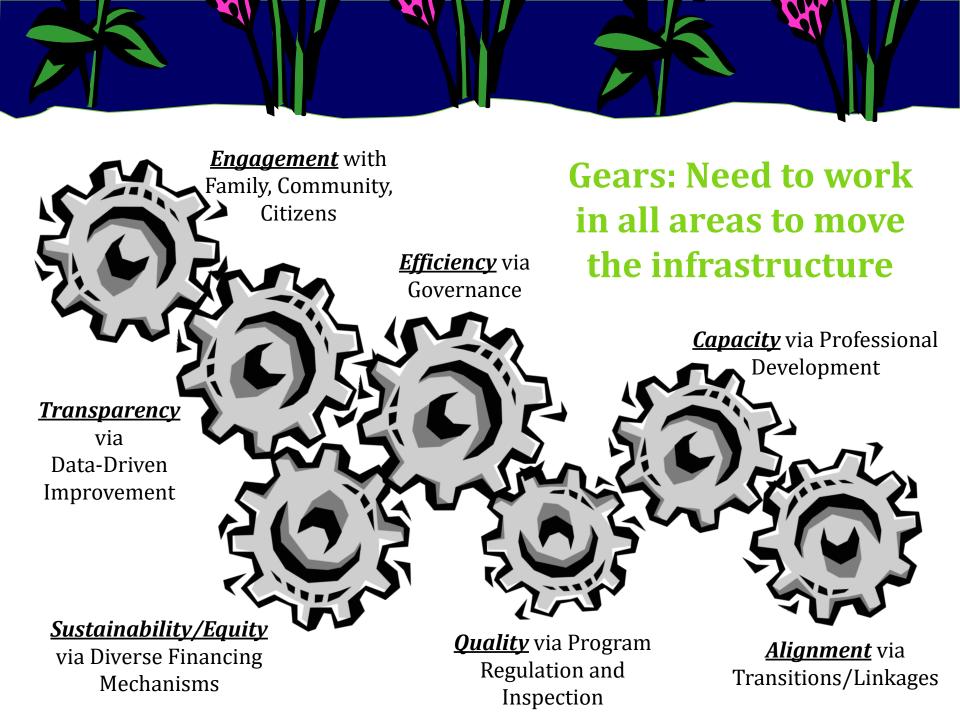
Systems

Services + Infrastructure





8 - 1 = 0







1. <u>Engagement</u> with Family, Community, Citizens

- Major commitment to family/community engagement in programs, governance
- Helps keep programs responsive to community needs and builds constituencies for young children





2. <u>Transparency</u> via Data-Driven Improvement

- Data collection on program quality and services
- Data collection on staff and their preparation/adequacy for roles
- Data collection on children and families regarding their access to services and the outcomes of their participation





3. <u>Sustainability/Equity</u> via Diverse Financing Mechanisms

- Too much focus on quantity, not quality
- Need consistency in funding
- Need to blend public and private funds inventively



4. Efficiency via Governance



- Horizontal debate: Which ministry (e.g., health, education)
- Vertical debate: Which level (e.g. local, regional)
- Governance brings clarity on who does what, for whom, when, and with what authority and accountability



5. Quality via Program Regulation and Inspection



- Conducted regularly by professionals
- Information from inspections needs to be used for quality improvement



6. <u>Capacity</u> via Professional Development



- Pre-service and In-service
- Consistent requirements for all teachers



7. Alignment via Transitions/Linkages



- From home to pre-primary to primary
- Among health, education, social services



Goal 3: Produce a Quality Study

Clear Research Questions

- **What's:** What ECEC policies and systems frameworks are in place?
- **How's:** How is ECEC system effectiveness similar or different?
- **Why's:** Why do countries vary in their commitments to ECEC?

Thorough Document Review

- 16 Prior ECEC Systems Studies = Compendium
- Laws, policies, ECEC frameworks, curriculum, country data

Solid Data and Analysis

- Common and piloted protocol
- Common informant types
- Validated analysis process



Goal 3: Produce a Quality Study

Memos

 NY Team drafts regular memos to co-PIs with Action Requests

Feedback grid

Action
 Request
 responses
 are compiled
 in a grid and
 shared with
 the group

Skype agenda

 NY Team designs an agenda for the Skype call to address outstanding questions

Skype call

 NY Team and all co-PIs join a monthly call to iron out thorny issues and come to agreement

Virtual processes

Meeting 1 (June, 2016)

- Preliminary compendium analysis
- Study design and parameters
- Case study outline
- Data collection procedures (interview sample and questions)
- Writing and review process



Meeting 2 (April, 2017)

- Secondary compendium analysis
- Country summaries
- Building block development
- Transcendent theme development
- Products and dissemination discussion

In-person processes





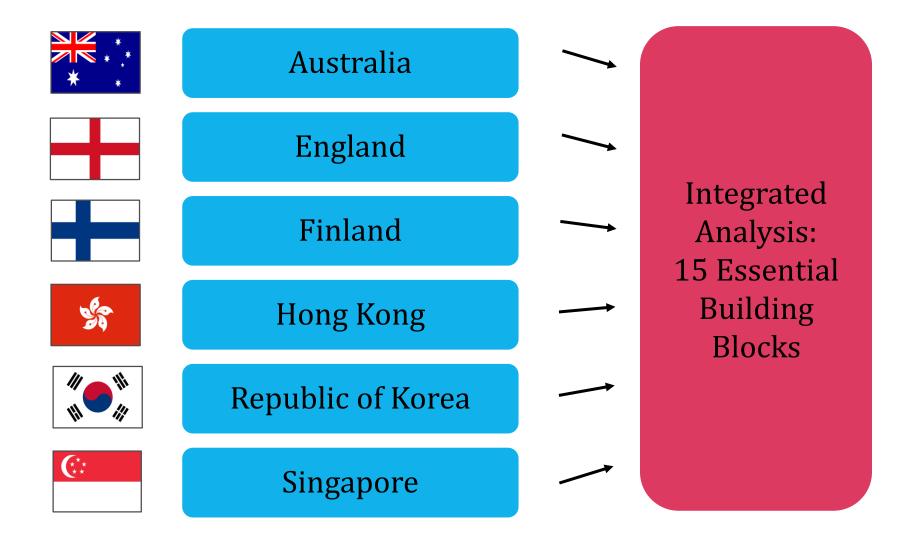
Goal 4: Create Useful Products for Diverse Audiences

Case Studies Book II: Book I: Reconceptualizing Reconceptualizing **Diverse Policy Quality: Six High-Quality: Building Blocks Materials Performing Countries** for Effective ECEC Leading by Example **Systems** Provides necessary Provides narrative stories NCEE-hosted webpage elements to build a quality about ECEC systems in six **ECEC** system high-performing countries Direct press/policymaker outreach Framed around essential Summarizes the practice building blocks for future and policy implications Branded, cross-platform derived from the stories **ECEC** systems social media campaign

Part III

Preliminary Findings

Case Studies



Australia



Collette Tayler, Ph.D. University of Melbourne

• Summary:

- Sizeable, diverse nation with mixed market economy
- Federal system places majority of responsibility on states for education
- Increasing government interest and investment in ECEC at all levels

- National reform agenda established National Quality
 Framework (NQF) and Australian Children's Education and Care Quality Authority (ACECQA)
- Strong and well-implemented framework provides a pedagogical framework that transcends states and territories

England



Kathy Sylva, Ph.D. University of Oxford

• Summary:

- Mixed public-private system provides near-universal provision
- Increasing public investment in ECEC targets access and quality for three-year-olds

- Strong emphasis on parent and community involvement in ECEC
- First-rate inspection system provides program accountability to parents, policymakers, and the public
- Data rigorously collected and used extensively as tools for pedagogical and program improvement

Finland

Kristiina Kumpulainen, Ph.D. University of Helsinki

• Summary:

- Consistently the highest-achieving European nation on PISA
- Right to equitable and quality ECEC is a cultural imperative
- Pre-primary education is a compulsory requirement and statutory duty for all Finnish municipalities

- Centralized national core curriculum for basic education leaves room for local and regional specificities
- Pre-primary education curriculum focuses on child individuality, active learning, and initiative
- Opportunities for PD contribute significantly to program quality

Hong Kong



Nirmala Rao, Ph.D. University of Hong Kong

• Summary:

- High-achieving, densely populated, competitive society
- Underlying Confucian ideology emphasizes education and success
- Since mid-1990s, increasing focus on high quality ECEC

- Successful mix-market delivery system: considerable centralization despite significant private provision
- Responsive policy-making, good governance, educated and entrepreneurial population

Republic of Korea



Mugyeong Moon, Ph.D. Korea Institute of Child Care and Education

• Summary:

- Overcame inauspicious beginnings to produce one of the most educated and skilled workforces in the world
- Extremely efficient ECEC system
 - Education spending is half of U.S., as a proportion of GDP
 - Enrollment rates for preschool education exceed 95%

- The recently established Nuri ("World") Curriculum emphasizes holistic development and responsible citizenship
- Robust commitment to research; government-funded institutes support knowledge development in ECEC

Singapore



Rebecca Bull, Ph.D. National Institute of Education

• Summary:

- Consistently high-achieving on international benchmark exams
- Diverse education landscape, rapid expansion in private sector
- Spirit of innovation and experimentation within ECEC

- Centralized curriculum spans from birth through the early years of school to foster effective transitions
- Early Childhood Development Agency established to ensure access to affordable and quality ECEC
- Consolidated approach to governance within the public sector

Part IV

Building Blocks: Integrating the Findings

I. Strong, Stable Policy Foundations	I.1. Supportive, Stable, and Aligned Social Context	I.2. Policy Strategies Documents that are Incrementally and Consistently Implemented	I.3. Organized and Supportive Constituents	
II. Knowledgeable and Supported Teachers/Families	II.1. An Approach to Develop and Maintain a Well-Trained, Compensated, Respected Workforce	II.2. An Approach to Develop and Maintain Policy and Pedagogical Leadership	II.3. Engaged and Knowledgeable Families and Communities	
III. Comprehensive Services, Coordinating Mechanisms	III.1. Diverse Array of Comprehensive ECEC Services	III.2. Sufficient Funding for Baseline Services And Targeted Populations	III.3. Coordinating Mechanisms	
IV. Data to Drive Improvement	IV.1. Effective Production and Use of Child Data	IV.2. Effective Monitoring System that Collects and Uses Program Data	IV.3. Effective Production and Use of Research	
V. Informed, Individualized, and Continuous Pedagogy	V.1. Clear Articulation and Implementation of Child-Centered Pedagogy	V.2. Commitment to Individualization for All Children	V.3. Continuity in Children's Experiences	

Supportive, Stable, and Aligned Social Context Policy Strategies
Documents that are
Incrementally and
Consistently
Implemented

Organized and Supportive Constituents

I. Strong, Stable Policy Foundations

- Context matters
- Effective ECEC systems have clearly articulated policies supported by organized constituencies
- Countries that provide effective services are bolstered by contexts that are durable and supportive of families

An Approach to
Develop and Maintain
A Well-Trained,
Compensated,
Respected Workforce

An Approach to Develop and Maintain Policy and Pedagogical Leadership

Engaged and Knowledgeable Families and Communities

II. Knowledgeable and Supported Teachers and Families

- People matter
- Effective ECEC systems are conditioned upon the people who create, support, and work within them
- Leadership of the system/programs are central to success, as well as a well-qualified and compensated workforce



III. Comprehensive Services and Coordinating Mechanisms

- Services and structures matter
- Effective ECEC systems pay attention to the ways in which services are organized, governed, and delivered
- Delivery is not haphazard, but planned and orchestrated

Effective
Production and
Use of Child
Data

Effective
Monitoring
System that
Collects and Uses
Program Data

Effective
Production and
Use of Research

IV. Data to Drive Improvement

- Data and its use matter
- Effective ECEC systems accord much weight to the collection and effective use of different kinds of monitoring data



V. Informed, Individualized and Continuous Pedagogy

- Pedagogy matters
- Effective ECEC systems accord importance to individualization, and addresses the importance of continuity and transitions

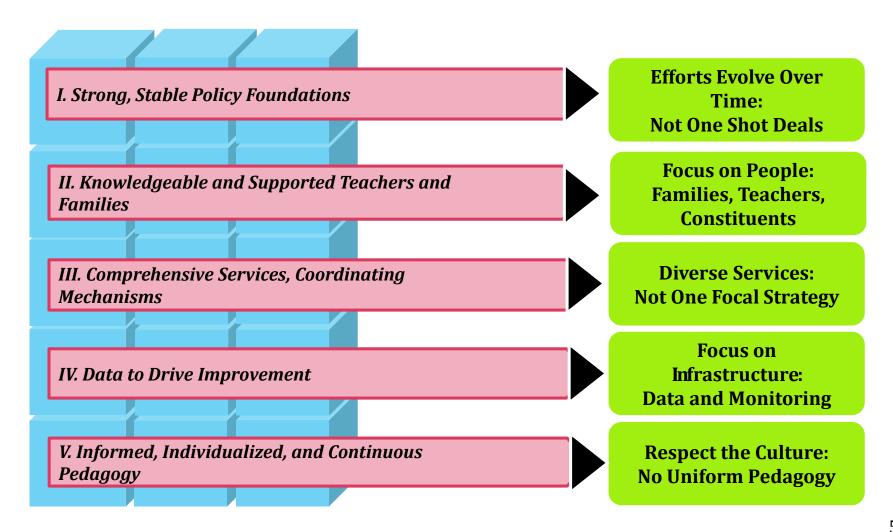
Part V

Using the Building Blocks: Lessons for ECEC Globally

Lessons We Should Learn



Using the Building Blocks: Lessons We Should Learn



No Matter What the Strategy, Need to Change the THINKING



Thinking about ECEC <u>systems</u>

FROM:

Thinking about individual programs and services



Think Different

- Steve Jobs to John Sculley:
 - "Do you want to spend the rest of your life selling water, or do you want a chance to change the world?"
- They did revolutionize six industries:
 - Personal computers, animated movies, music, phones, tablet computing, and digital publishing

"The people who are crazy enough to think they can change the world are the ones who do."

Apple's "Think Different" Commercial 1997 Foreword to Walter Isaacson's book, <u>Steve Jobs</u>