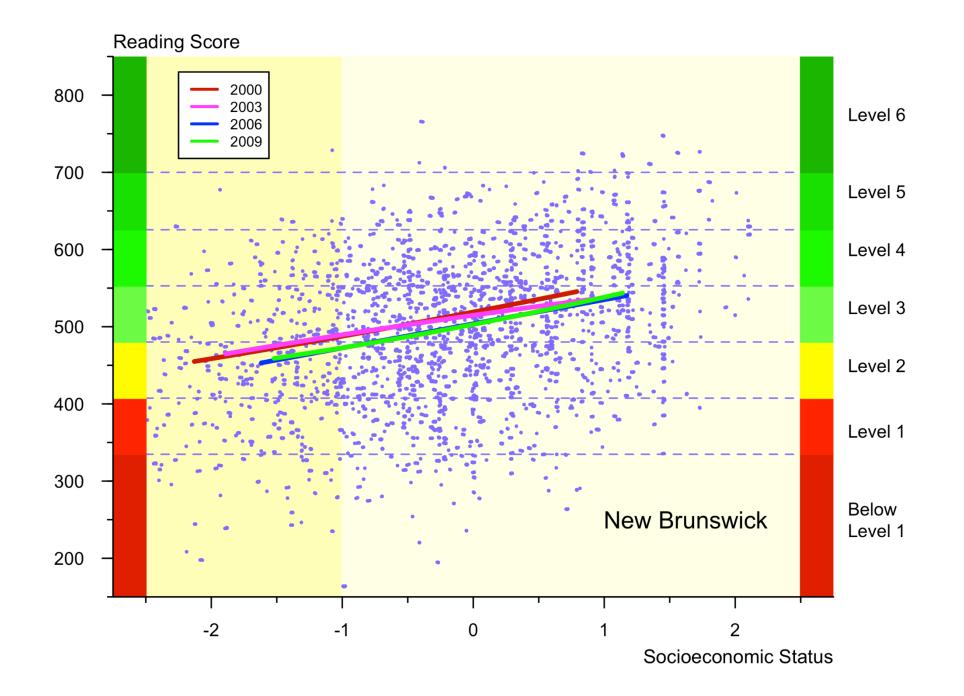
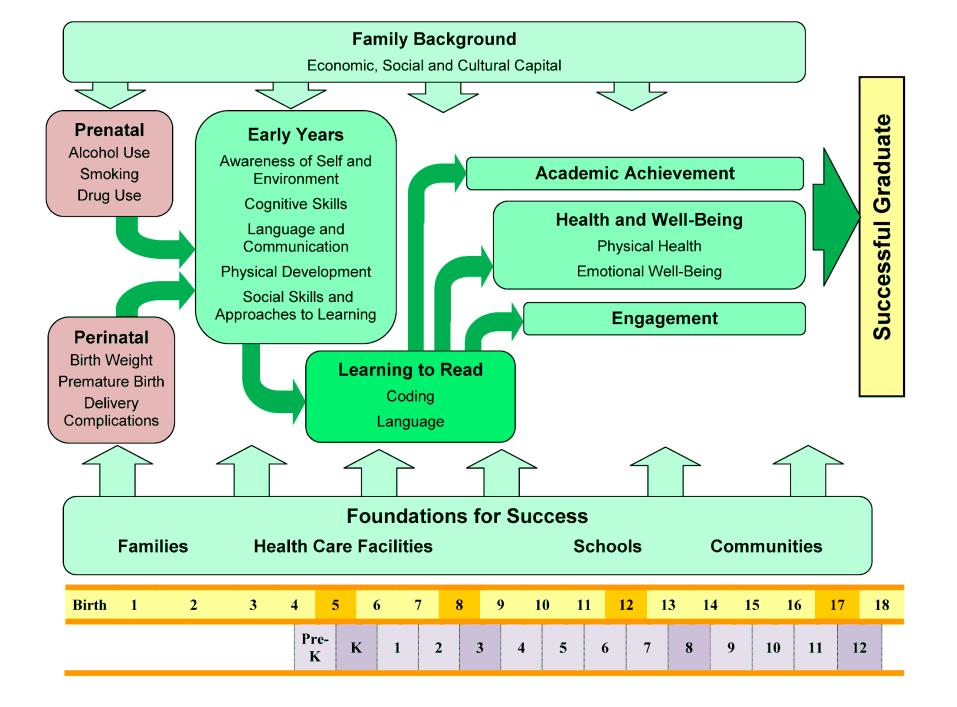


Aligning Data for School Success

J. Douglas Willms University of New Brunswick and The Learning Bar Inc.







Educational Prosperity

Educational Prosperity is an assessment framework for monitoring children's developmental outcomes and the key factors that drive these outcomes, as children develop from conception to adolescence.

The outcomes, called **Prosperity Outcomes**, are indicators of children thriving at each stage of development.

The factors that support healthy childhood development are the **Foundations for Success**. They represent the capacity of a society to develop young peoples' literacy skills and well-being.

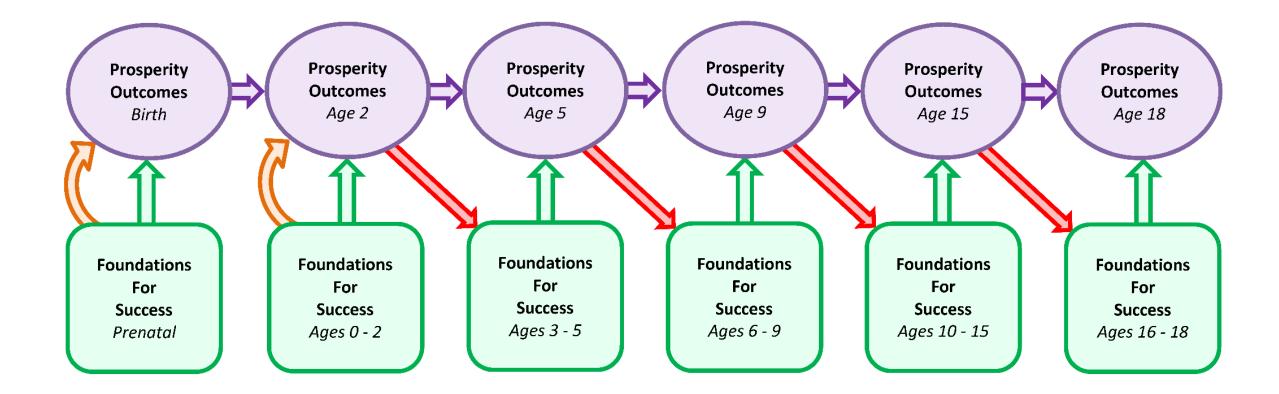


Metrics for Success: SIX KEY STAGES

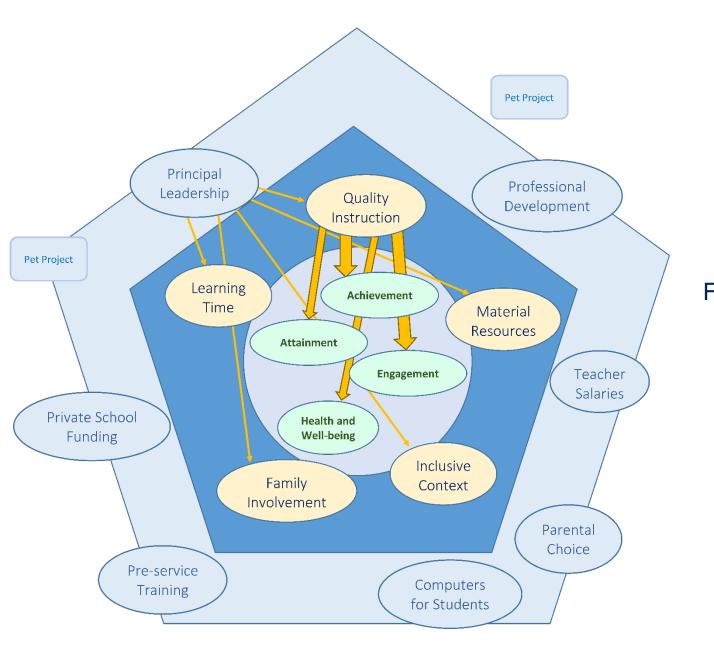
Educational PROSPERITY GIVING EVERY CHILD THE OPPORTUNITY TO THRIVE

Success accumulates in four ways: Biological Embedding Foundations			F			
for Success Cumulative		~				
Effects	PRE-NATAL	EARLY DEVELOPMENT	PRE-PRIMARY	EARLY PRIMARY	LATE PRIMARY & LOWER SECONDARY	UPPER SECONDARY
Selection		Ages 0 - 2	Ages 3 - 5	Ages 6 - 9	Ages 10 - 15	Ages 16 - 18
Prosperity Outcomes	- Healthy pregnancy - Safe delivery	 Physical development Language development Cognitive development 	 Awareness of self and environment Physical development Language development Cognitive development Social skills and approaches to learning 	 Reading literacy Numeracy Health and well-being Engagement 	 Academic achievement Educational attainment Health and well-being Engagement 	 Ethical citizenship Leadership skills Health and well-being Communication skills
Foundations for Success Family Factors	 Nutrition Toxin exposure Mother's physical and emotional health 	 Breast-feeding and nutrition Mother's physical and emotional health Parenting skills Intra-family relations 	- Parenting skills - Intra-family relations	- Parenting skills - Intra-family relations	 Parenting skills Intra-family relations 	- Parenting skills - Intra-family relations
Institutional Factors	HEALTH-CARE FACILITY: - Pre-natal care - Primary health-care	HEALTH-CARE FACILITY: - Post-natal care - Primary health-care	PRE-SCHOOL: - Child-centered - Goal-oriented - Opportunity to socialize	SCHOOL: - Inclusive context - Explicit teaching in code and language skills - Learning time - Material resources	SCHOOL: - Inclusive context - Quality instruction - Learning time - Material resources	SCHOOL: - Inclusive context - Quality instruction - Opportunity to learn career and life skills
	- Social capital	- Social capital	- Social capital	- Social capital	- Social capital	- Social capital
Community Factors	- Resources	- Resources	- Resources	- Resources	- Resources	- Resources

Educational Prosperity identifies four ways that success accumulates

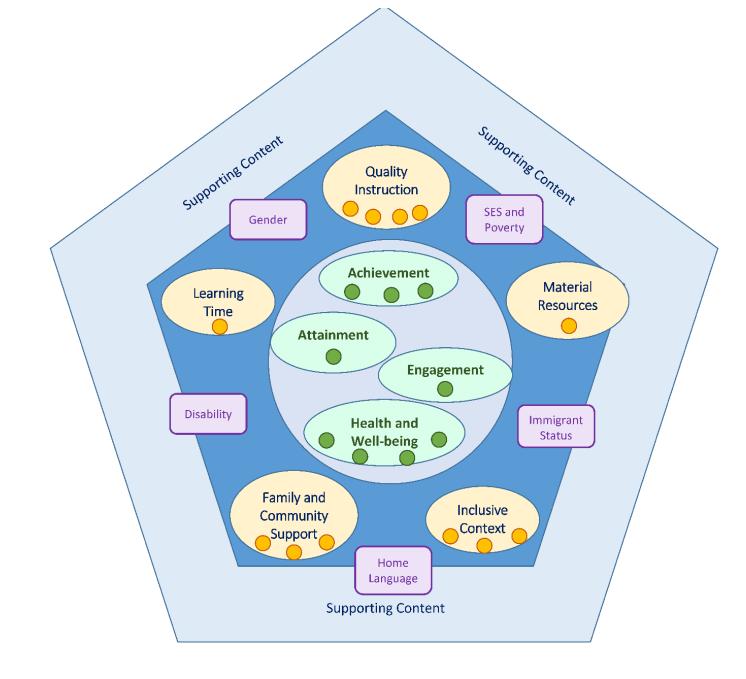






Foundation of Success factors are:
Potent (strong effects on outcomes)
Pervasive (effect a range of outcomes)
Proximal (a direct effect on the outcomes)





Educational Prosperity Model for PISA for Development

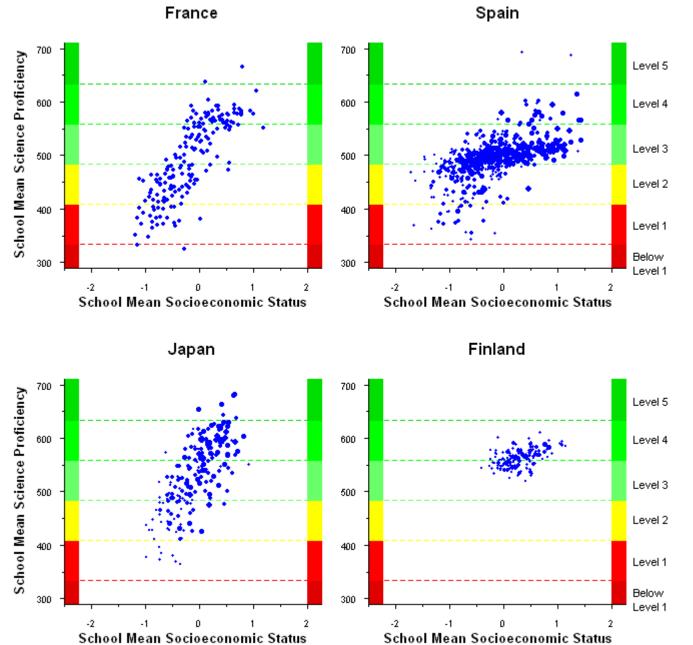


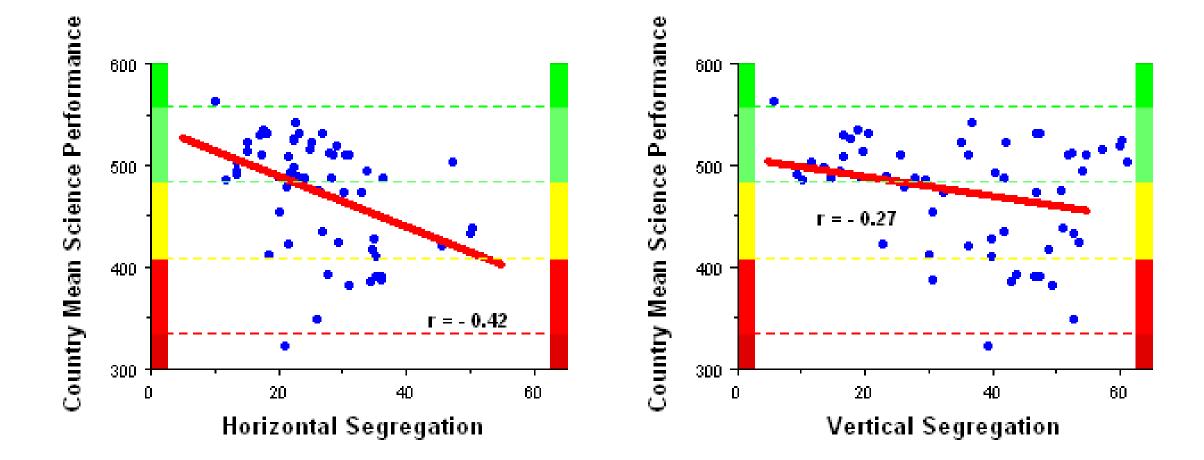
When students are successful at one stage of development, their life-course can be altered if they are selected into certain classes, school programs or schools.

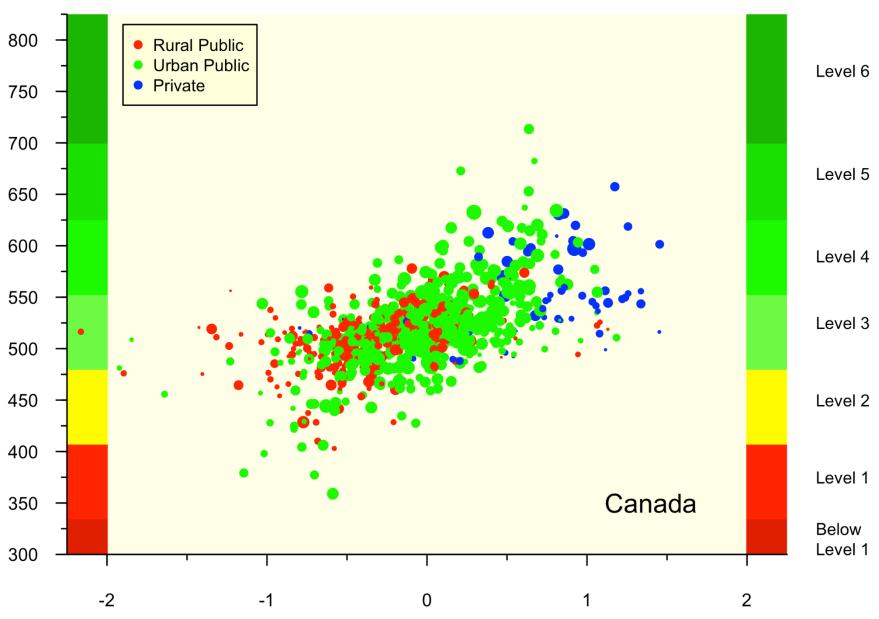
For example, children who have strong reading and language skills are more likely to be streamed into classes or school programs where they benefit from positive peer interactions, a higher quality of instruction, and other factors that enable them to develop their skills at a faster pace.

Children who experience learning difficulties at a particular stage are more likely to be streamed into lower ability classes and have less access to the factors that improve their skills.





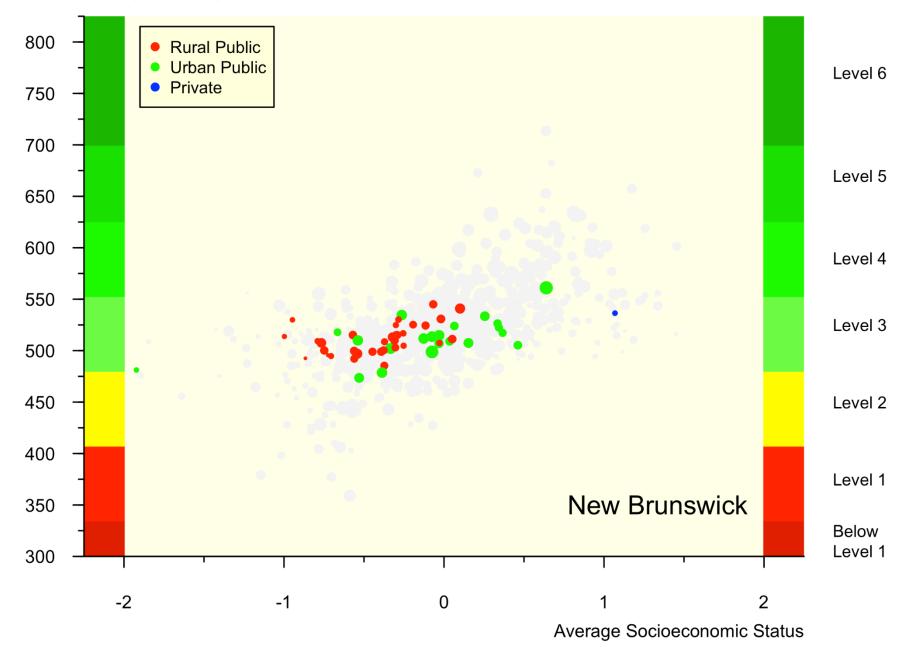


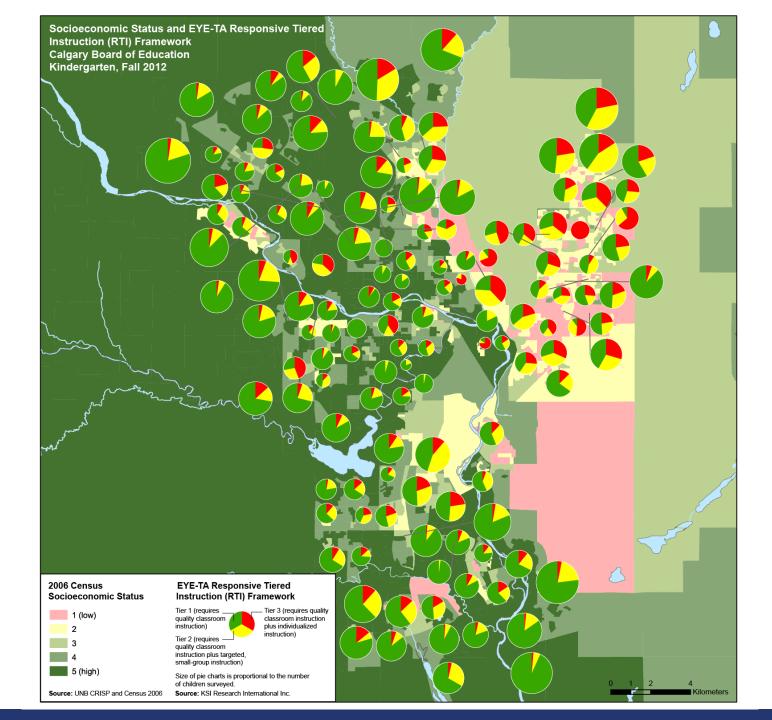


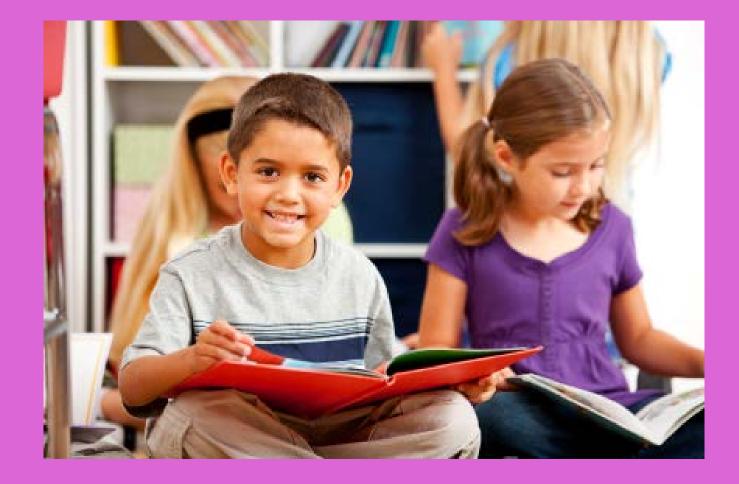
Average Socioeconomic Status

Average Reading Proficiency

Average Reading Proficiency







French Immersion

Five reliable research facts – universal is the sense that the findings are consistent across many cultures.

1. **Inclusive school systems have better performance in reading, mathematics, and science.** The evidence for this comes from several studies, including the large international studies such as PISA. Inclusive means a school system in which children are not streamed by gender, ability, socioeconomic background, ethnicity or whether or not they have a disability.

2. The critical period for LTR is K – 2. The vast majority of children who do not learn to read well by age 8 or 9 – about 90% in Canada and the US – are struggling readers through to high school. While many of these children become productive citizens, they tend to be at greater risk of mental health issues, dropping out of school, and ultimately being on the social welfare. They are also more prone to engaging in risky behaviours: excessive alcohol use, drug use, and early sexuality.

3. **Early is better**: The ideal is to start hearing the second language at birth, as then children can develop oral language skills comparable to children who have French as a first language. For all children, earlier is better – there is virtually no disagreement about this fact.

4. '*Time in*' is key: Progress in learning a new language is related to the number of hours dedicated to instruction in French and the time spent immersed in a francophone social context

5. **Children with low ability can learn 2 languages**. I have met two young women who had moderate intellectual disabilities who spoke 3 to 4 different languages. One was the keynote speaker for a conference on inclusion.

My vision: An *inclusive* education system in which *all* children receive instruction in a French from kindergarten thorough to at least grade 8, with at least half of the population taking further instruction through to grade 12.

Some realistic goals:

Job 1. 85% reaching the level of Appropriate or Above in reading proficiency in English at the end of Grade 2 (72 to 80)

Job 2. All children reaching at least the intermediate level in French.

Intermediate - comfortable in social situations (survival skills).

Advanced = ready for the workplace.

75% achieving Basic Level of French by the end of grade 5, (< 10 to 42%)75% Achieving Intermediate level of French by the end of Grade 8, and40% achieving Advanced Level of French by the end of Grade 12. (only 4% currently)

Some Strategies

- Argue for a universal system in which all children are on a pathway to becoming bi-lingual.
- If we do have a dual-stream system:

Delay streaming as late as possible

Have two streams: French Immersion and STEM

- Use the current data from the EYE-DA to assess differences in the skills of students upon entry to Kindergarten and Grade 1. Ensure that the non-immersion classrooms are properly resourced with a good special needs funding formula.
- Ensure that we have regular assessment in English and French for all students.