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CENTRE
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Is There Still Momentum in the Atlantic Canada Economy?

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Is There Momentum in the Atlantic Canada Economy?¹

Atlantic Canada has long been considered the poor step-child of Confederation. With years of out-migration, little inward immigration and chronically weak economic growth, the region's share of both the Canadian population and the Canadian economy fell steadily over decades. But the situation is changing. Since the mid-2010s, Atlantic Canada has caught wind in its sails, gathering significant economic momentum. As a result, it has recorded population growth and slowed if not reversed the marginalization of a region that long carried the 'have-not' moniker.

In fact, the improvement in economic performance on a broad range of indicators has significantly outpaced that of Canada as a whole. The objective of this report is to track these encouraging trendlines and break down the areas experiencing momentum or still lacking it

With these findings as a base, Atlantic Canadians and their policymakers will be equipped with a new set of tools with which to establish and assess stretch targets into the 2030s and apply the necessary policies to achieve these targets.

This report updates the first report on momentum in Atlantic Canada released by the Public Policy Forum in March 2023. That report developed a scorecard based on 20 indicators in six domains, namely the macro economy, human capital, the labour market, innovation and investment, standard of living, and overall life satisfaction. Trends in Atlantic Canada in these indicators from 2015 to the most recent year for which data were available are compared with the 2008-2015 period for Canada and Atlantic Canada. An improvement in performance between periods is a sign of growing momentum. Comparisons are also made in the rates of improvement in the indicators in Atlantic Canada after 2015 compared to Canada to see if the region's absolute performance has outpaced that of Canada and the rest of the country.

This report follows the same methodology as the 2023 report, with the addition of one year of data for all indicators. The major change is the addition of five new indicators, namely the labour force participation rate of women with children under six; greenhouse gas emissions; investment in renewal energy; housing affordability and the poverty rate.

In sum, the Public Policy Forum has set out on a three-part mission:

- 1. What are the current measures of economic and social momentum in Atlantic Canada?
- 2. What provincial and regional targets should be established vis a vis the indicators in this report and their relative position with the rest of Canada?
- 3. What policies will best help facilitate the bridging of gaps that ill-serve the residents of Atlantic Canada's four provinces?

¹ This report was written by Andrew Sharpe, Executive Director of the Centre for the Study of Living Standards \. Email: andrew.sharpe@csls.ca.

The report is divided into five sections. The first section discusses trends in the place of Atlantic Canada and the Atlantic Provinces within Canada and the motivation for the project. The second section discusses the methodology used to develop the scoreboard, including the rationale for the choice of indicators and the choice of periods. The third section presents the summary results. Section four, the largest section in the report, discusses the results for all 25 indicators for Atlantic Canada and Canada. Section six concludes.

I. A Long-term Perspective on Atlantic Canada's Place within Canada

Over the last 60 years, Atlantic Canada's share of the population of Canada has fallen dramatically. In 1961, the population of Canada was 18,271,000 and that of Atlantic Canada was 1,901,000. By 2023, Canada's population had grown to over 40 million while Atlantic Canada's population sits at 2.6 million. As a result, Atlantic Canada's share of the Canadian population had fallen 4 percentage points from 10.40 per cent in 1961 to 6.50 per cent in 2023 (Chart 1). The decline in the population share has been fairly steady, falling at each 10-year census point, by 0.91 points, 0.38 points, 0.66 points, 0.90 points, and 0.65 points respectively from 1961 to 2011 and by a somewhat smaller 0.50 points since 2011.

However, the situation appears to be changing. For the past two years, population growth in Atlantic Canada has exceeded the national total. Greater immigration largely explains this turnaround.

Perhaps surprisingly, the relative size of the Atlantic Canadian economy has not experienced the same decline as that of population. In 1961, nominal GDP in the region was \$2.5 billion, equivalent to 6.16 per cent of Canada's GDP of \$40.6 billion. By 2022, the nominal GDP in Atlantic Canada had risen to \$149 billion and that in Canada to \$2.81 trillion. Atlantic Canada now accounts for 5.30 per cent of Canada's GDP, down only 0.86 percentage points from the share in 1961 (Chart 1). This is one fifth of the decline in the region's population share over the same period.

The upshot of this paradoxical development has been a dramatic narrowing in relative living standards between Atlantic Canada and Canada. In 1961, nominal GDP per capita in Atlantic Canada was \$13,000, just 59 per cent of the national average of \$22,000. By 2021, GDP per capita in Atlantic Canada had risen to \$57,200, now 87 per cent of the national average of \$65,700 (Chart 2). In other words, the region's standard of living has risen an amazing 27.9 points or by nearly 50 per cent relative to the national average.

This is an important finding as it suggests that regional disparities in Canada have diminished markedly over the last 60 years. The reasons for this improvement include the reductions in the region's productivity and employment rate gaps with the rest of the country, and increased transfer payments from the federal government. However, the full story of the convergence of

living standards in Atlantic Canada toward the national average is beyond the scope of this report.

Chart 1: Atlantic Canada's Population and Nominal GDP as Share of Canada (%)

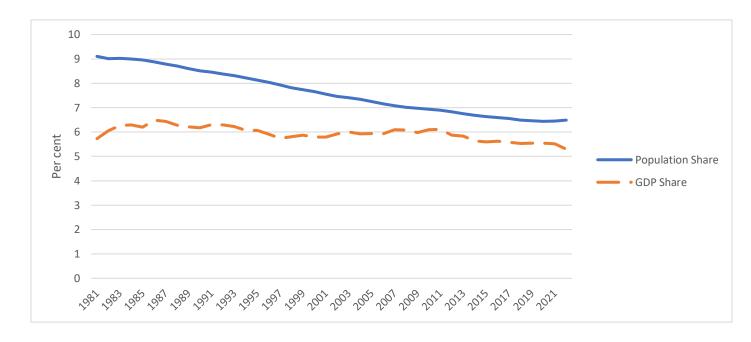
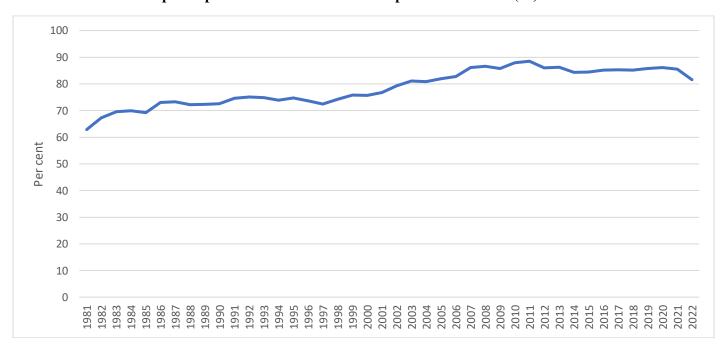


Chart 2: Nominal GDP per Capita: Atlantic Canada as a Proportion of Canada (%)



II. Methodology for the Atlantic Canada Scorecard

The methodology used to develop the scorecard is straightforward. First, we select a set of indicators for Atlantic Canada for various economic and social trends. We then construct measures of a momentum measure for each indicator. This section of the report reviews the key aspects of the methodology, namely the choice of indicators definition of the term momentum, the dating of the periods for calculation of momentum, and the construction of indicators for Atlantic Canada from provincial data.

Choice of Indicators

The most important task for those who construct a scoreboard is to select a set of indicators that capture what the developers believe is important. The indicators need to be relevant, reliable, easily accessible, available for the time period covered and easily understandable.

The original 20 indicators on economic and social trends in Atlantic Canada chosen for the scoreboard came out of a three-stage process. First, Public Policy Forum (PPF) staff developed an initial list of potential indicators based on their views of which indicators had potential to capture a broad picture of the region's economic development. A group of prominent Atlantic Canadians then discussed these indicators at a PPF event in Halifax in September 2022. Feedback from the group was then incorporated into a revised set of indicators, which was then shared with the Centre for the Study of Living Standards (CSLS). Comments from the CSLS related to the definition and relevance of the revised indicators were then used to produce the first set of indicators.

The five new indicators (poverty rate, greenhouse gas emissions, housing affordability, investment in renewable energy, and the participation rate of women with children under six), drew upon earlier discussions of desirable indicators as well as the views of CSLS and PPF staff.

Exhibit 1: List of Indicators by Domain

Macro-Economy

- 1) Real GDP
- 2) Real GDP Per Capita
- 3) Real Exports

Human Capital

- 4) Population
- 5) Median Age
- 6) Immigration
- 7) Immigration Retention
- 8) NEETs
- 9) Tertiary Education

Labour Market

- 10) Employment Rate
- 11) Employment Income
- 12) Labour Productivity
- 13) Labour Force Participation of Women with Children under Six

Innovation and Investment

- 14) Business Expenditures of Research and Development (BERD)
- 15) Non-Residential Investment
- 16) Production of Non-emitting Energy
- 17) Investment in Renewal Energy
- 18) Greenhouse Gas Emissions

Quality of Life

- 19) Gini Coefficient
- 20) Housing Starts
- 21) Access to a Family Physician
- 22) Housing Affordability
- 23) Poverty Rate
- 24) Life Satisfaction
- 25) Sense of Belonging

Definition of the Term Momentum

The key objective of this report is to highlight and quantify the momentum that many feel Atlantic Canada has been showing in recent years. It is important to document this perception of momentum.

In physics, momentum is the speed of motion of an object. Even if an object has a slower rate of growth or motion now compared to an earlier period, it still is considered to have momentum. However, in economics, momentum refers to a pick-up or acceleration in the rate of growth of a variable. So a change in a change or the second derivative. If the growth rate falls to 2 per cent in period B from 3 per cent in Period A, we do not say the variable has momentum even though it is still growing. On the other, if the growth rate of a variable increases from 1 per cent in period A to 2 per cent in period B, we say it has momentum, because of the higher growth rate. We have used this second definition of momentum in the report, that is an improvement in the growth rate of the variable, to define and track momentum. The degree of momentum is the difference between the growth rates between the second and first periods and is measured in percentage points. These can still be momentum if the growth rates in both periods experience negative growth rates and the negative growth in the second period is smaller.

Dating of the Periods

Given that momentum is measured as the difference in growth rates between periods, a well thought out dating of the periods is crucial for the estimation of momentum. As a general rule, it is desirable to use business cycle peaks to date periods in order to minimize the short-term cyclical influences. The years 2000, 2008 and 2019 are all cyclical peaks so the periods 2000-2008 and 2008-2019 could be used to measure momentum. However, there appears to have been much more momentum in Atlantic Canada after 2015 than before, and so the 2008-2019 period growth rates does not capture this shift. The 2008-2019 period needs to be divided into two period. The year 2015 was chosen as the break point in order to have two periods of roughly equal length. There are seven years in the first period 2008-2015 and seven years in the second period 2015-2022.

It is always desirable to incorporate the most recent data into the analysis. As of July 18, 2024, of the 25 series, data are available to 2023 for 10 indicators, to 2022 for 13 indicators, to 2021 for one indicator (BERD) and to 2020 for one indicator (immigration retention) Indicators will be updated if more recent data are released before the report goes to the printer in September.

Construction of an Atlantic Canada Aggregate

Statistics Canada releases data at the provincial level and often does not have official figures for regions such as Atlantic Canada. In cases where official figures for Atlantic Canada are not available, the Centre for the Study of Living Standards has constructed estimates in three ways. The first way is to sum the estimates for the four Atlantic provinces. This works for variables

expressed in absolute terms such as population and current dollar GDP categories,² It does not work for indicators expressed in terms of rates or percentages. Where absolute estimates of the numerator and denominator of these rates are available by province, the estimates have been summed for the region and a regional rate calculated. When it has not been possible to obtain the estimates in absolute terms, the provincial rates have been weighted by an appropriate variable, generally the denominator of the ratio, to obtain a regional rate.

Data Sources

All data for the indicators used in this report have been taken from Statistics Canada, except for the greenhouse gas emissions, which is from Environment and Climate Change Canada. The Centre for the Study of Living Standards has constructed an extensive database that contains estimates for all 25 indicators for Canada and for the ten provinces for as long a period as data availability permits. For indicators expressed in absolute terms, provincial shares of the national total have been calculated as well as per capita estimates in absolute terms and as a proportion of the national average. The Excel files containing these data

will be made publicly available with the report when it is released.

II. Summary Results

able 1 presents the number of indicators in Canada, Atlantic Canada and the 10 provinces that experienced an absolute improvement or a deterioration in performance in the 2015-2021 period, as measured by the growth rate of the indicator. Note that we do not refer to an increase or decrease in the indicator as for three indicators (median age, the proportion of NEETS, and the Gini coefficient), a decrease represents an improvement in the indicator.

Table 1: Number of Indicators Experiencing Improvement and Deterioration in the Atlantic Scoreboard, 2015-2022/23

	Improvement	Deterioration
Canada	20	5
Atlantic Canada	17	8
Newfoundland and Labrador	14	11
Prince Edward Island	18	7
Nova Scotia	19	6
New Brunswick	16	9
Quebec	22	3

⁻

² We have summed provincial estimates of GDP categories expressed in both constant and chained dollars even though technically speaking these estimates are not additive. We expect the bias introduced by this procedure is small.

Ontario	20	5
Manitoba	17	8
Saskatchewan	14	11
Alberta	13	12
British Columbia	20	5

Note: An increase in the rate of change of the variables Median Age, the Gini Coefficient, and NEET is defined as an improvement and a decrease of deterioration is indicative of positive momentum. For all other variables, positive momentum is associated with a positive change

In 2015-2021, 18 of the 25 indicators in Atlantic Canada showed improvements over the period, that is exhibited positive growth rates for indicators where more was better and negative growth rates for indicators where less is better. On this criterion. Atlantic Canada performed slightly less well than Canada where 19 of the 25 indicators also showed improvements.

Both Atlantic Canada and Canada experienced a deterioration in four indicators: non-residential investment, housing affordability, life satisfaction, and sense of belonging. Atlantic Canada also saw a deterioration in employment income, renewal energy investment, and access to a family doctor. Canada saw a decrease o=in the immigrant retention rate

Table 2 presents the number of indicators in Canada, Atlantic Canada and the 10 provinces that experienced an improvement or a deterioration in performance in the 2015-2022/23 period relative to the 2008-2015 period, as measured by the change in the growth rate of the indicator. It is the indicators that show an improvement that are said to have momentum.

Table 2: Number of Indicators Experiencing Momentum (a Positive Change in the Rate of Change) (2008-2015 vs 2015-2022/23

	Momentum	No Momentum	
Canada	17	8	
Atlantic Canada	15	10	
Newfoundland and Labrador	18	7	
Prince Edward Island	13	12	
Nova Scotia	15	10	
New Brunswick	14	11	
Quebec	17	8	
Ontario	16	9	
Manitoba	14	11	
Saskatchewan	11	14	
Alberta	9	16	
British Columbia	18	7	

Note: A negative change in the rate of change of the variables Median Age, the Gini Coefficient, and NEET between the two periods is indicative of positive momentum. For all other variables, positive momentum is associated with a positive change.

15 of the 25 indicators in Atlantic Canada manifested an improvement in 2015-2022/23 compared to 2008-2015, with ten indicators showing a deterioration. This is evidence of the region having momentum,³ although the proportion of indicators showing moment (60 per cent) was less than in the first Atlantic Momentum Index report (75 per cent based on 15 out of 20).

This momentum was exhibited in all four Atlantic provinces, with similar performance outcomes.

Momentum in Atlantic Canada after 2015 was less than at the national level where 17 out of 25 indicators showed momentum. In the previous report Canada did worse than Atlantic Canada as one half (10 out of 20) of the indicators did not experienced a pick-up. This change reflects the addition of one more year, or for some indicators, two more years of data. Economic growth in Canada in 2022 was strong at 3.8 per cent, well above that in Atlantic Canada at 1.1 per cent. Economic growth influences positively many indicators.

Appendix Table 3 presents the indicators for the Atlantic and the provinces where the level of the indicator is above and below the national average in 2008, 2015 and the two most recent years fr which data are available, generally 2022 and 2023. Note that a number of the indicators expressed in dollar terms or in units and not in rates, such as exports, immigration, BERD, non-residential investment, non-emitting energy investment, and housing starts, have been converted to per capita measures to control for the size of the jurisdiction and ensure comparability. In addition, two indicators, population and real GDP, are excluded as there is no concept of population per capita and GDP per capita is already a separate indicator. This means that there are 23 indicators, not 25 indicators, for this exercise.

On this criterion, Atlantic Canada does poorly and is not getting better. In 2008, there were 12 indicators below the national average and 13 in 2015. In 2021, 13 of the 17 indicators in Atlantic Canada were below the national average. The four indicators above the national average were production of non-emitting energy, access to a family physician, life satisfaction, and sense of belonging to the local community. Three of these indicators act as social indicators more than economic indicators.

IV. Momentum Results for the 25 Indicators

This section of the report presents the results for the 25 indicators in the six domains, namely the macro economy, human capital, labour market performance, innovation and investment, standard of living, and overall satisfaction with life. Trends in Atlantic Canada in these indicators from

³ As noted earlier, results are sensitive to the dating of the periods. When the break is made at 2010 instead of 2015 and the 2000-2010 and 2010-20222/23 periods are used, fewer indicators in Atlantic Canada experienced momentum in the post-2010 period. The 2010-2015 period was not one of strong performance for Atlantic Canada.

2015 to the most recent year for which data are available are compared with the 2008-2015 period for both Canada and Atlantic Canada. An improvement in performance between periods is a sign of momentum.

Comparisons are also made in the rates of improvement in the indicators in Atlantic Canada after 2015 compared to Canada to see if the region's absolute performance has outpaced that of Canada and the rest of the country. It is possible that the region showed a very large improvement after 2015 from a very poor performance in pre-2015 period, but it is still underperforming the national average.

Macro-Economy

The macro economy domain contains three indicators: real GDP, real GDP per capita and real exports. On all three indicators Atlantic Canada has exhibited considerable momentum after 2015. In contrast, the Canadian economy is showing momentum as only two of these indicators after 2015

Economic Growth (Real GDP)

The Atlantic economy experienced very slow economic growth from 2008 to 2015, only 0.10 per cent per year on average. However, in the 2015-2022 period, economic growth picked up considerably to 1.14 per cent per year, an improvement of 1.04 percentage points, strong evidence of momentum.

Meanwhile, the Canadian economy advanced 1.54 per cent per year in 2008-2015. Economic growth then increased to 1.78 per cent per year in 2015-2022, an acceleration of 0.24 points.

Despite the very large turnaround of the Atlantic Canadian economy after 2015, in absolute terms, real GDP growth was still considerably higher at the national level (1.78 per cent versus 1.04 per cent).

Real GDP per Capita

Real GDP per capita is a widely used measure of living standards and is GDP growth controlling for population.

The Atlantic economy experienced negative growth in real GDP per capita from 2008 to 2015, at -0.11 per cent per year. In the 2015-2022 period, real GDP per capita growth, following the trend of real GDP economic growth, picked up to 0.20 per cent per year, an improvement of 0.31 percentage points and strong momentum.

Real GDP per capita in the Canadian economy advanced 0.51 per cent per year in 2008-2015, with growth continuing at a slightly faster pace of 0.53 per cent in 2015-2021, an improvement of 0.02 points. The growth in living standards picked up in both Atlantic Canada and at the national level after 2015.

The rate of growth in real GDP per capita in Atlantic Canada has fallen short of the Canadian average since 2015 (0.20 per cent versus 0.53 per cent).

In absolute terms, real GDP per capita is lower in Atlantic Canada than in Canada, and the gap is not closing. In 2022, real GDP per capita was \$49,502 (2017 dollars), 82.8 per cent of the national level of \$59,762. This relative level is down from 84.8 per cent in 2015 and 88.5 per cent in 2008. The year 2022 saw real GDP per capita fall 1.3 per cent in Atlantic Canada, compared to a 1.9 per cent increase in Canada. This reversed the gains in living standards the region had experienced relative to the national average from 2015 to 2021.

Real Exports

The export performance of the Atlantic economy from 2008 to 2015 was very poor, with real exports down 1.93 per cent per year. In the 2015-2022 period, real exports still fell, but at a slower rate (-0.44 per cent), an improvement in momentum of 1.49 percentage points.

Real exports at the national level advanced 1.61 per cent per year in 2008-2015, but growth fell off to 1.03 per cent in 2015-2021, a deceleration of 0.59 points.

The rate of growth in real exports in Atlantic Canada has been much below the Canadian average between 2015 and 2022 (-0.44 per cent versus 1.03 per cent). This is a key reason for the region's slower economic growth.

In absolute terms, real exports per capita are lower in Atlantic Canada than in Canada, and the gap is getting worse. In 2022, real exports per capita were \$22,700 (2017 dollars), 80.4 per cent of the national level of \$28,246, and down from 87.2 per cent in 2015 and 105.6 per cent in 2008 before exports from the Atlantic region plummeted.

Human Capital

The human capital domain contains five indicators: population, median age, immigration, immigration retention, proportion of youth not in employment, education or training (NEETs), and the proportion of the population with tertiary education. Atlantic Canada exhibited momentum on five of the six indicators, the exception being immigration retention. Canada had momentum on all six indicators

Population

Atlantic Canada experienced very weak population growth from 2008 to 2015, only 0.21 per cent per year on average. In the 2015-2023 period, population growth picked up considerably to 1.20 per cent per year, an acceleration of 0.99 percentage points. Very large increases in population in 2023 and 2022, 3.1 per cent and 2.5 per cent respectively, contributed significantly to this faster growth.

In Canada, the population grew at 1.02 per cent per year in 2008-2015 and then picked up to 1.46 per cent in 2015-2023, an acceleration of 0.44 points. The pick-up in population growth in

Atlantic Canada after 2015 was two times larger than that in Canada, although both showed considerable momentum.

In absolute terms, population growth after 2015 was still slightly slower in Atlantic Canada than at the national level (1.20 per cent versus 1.20 per cent). Relatively fewer immigrants and net migration to the rest of Canada explain this situation. This slower population growth has meant that the region's share of the national population has continued to fall (from 6.6 per cent in 2015 to 6.5 per cent in 2023), but this rate of decline is much slower than before 2015, as shown in Chart 1. In 2022 and 2023 the region's population growth actually outpaced that of Canada (2.5 per cent versus 1.8 per cent in 2022 and 3.1 per cent versus 3.0 per cent in 2023)

Immigration

Immigration to Atlantic Canada has been historically very low during the 20th century. Starting in the second half of the 2000s, immigration to the region has increased from very low levels and is now by far the most important source of population growth.

Atlantic Canada experienced strong immigration growth of 10.43 per cent per year from 2008 to 2015. In the 2015-2022 period, immigration was even stronger at 13.21 per cent per year, a pick-up of 2.78 points.

In Canada, immigration grew at 4.02 per cent per year in 2008-2015 on a much higher base, and picked up to 5.46 per cent in 2015-2022, an acceleration of 1.44 points. The pick-up in immigration growth in Atlantic Canada after 2015 was greater than that in Canada (2.78 versus 1.44 points), with both jurisdictions showing considerable momentum.

In absolute terms, immigration growth after 2015 was much higher in Atlantic Canada than at the national level (13.21 per cent versus 5.46 per cent), again due to the lower base.

Historically, annual immigration in Atlantic Canada has been much lower as a share of the population than the national average. This situation has changed abruptly. Atlantic Canada welcomed 28 thousand immigrants in 2021 and 32 thousand in 2022, for a total of 60 thousand over a two-year period. In 2022, the annual immigration inflow made up 1.22 per cent of the Atlantic Canadian population, compared to 1.11 per cent in Canada. This represents a massive change from the historical pattern of the Atlantic Canada as a region that immigrants largely avoided.

<u>Immigration Retention</u>

The immigrant retention rate, defined as those still in the province of their arrival in a later period has historically been lower in Atlantic Canada than Canada as a whole, reflecting more limited employment opportunities and the smaller size of immigrant communities. Data are only available for the five year immigrant retention rate from 2012-2016 and for the one year retention rate from 2016 to 2020. Momentum, is defined as the difference between the 2012-2016 and 2016-2020 periods, on the assumption that trends in the two rates are comparable.

Immigration retention has been improving in Atlantic Canada, The five-year retention rate advanced 0.5 per cent per year from 53.8 per cent in 2012 to 54.6 in 2016. The one-year retention rate increased 0.31 per cent per year from 67.2 per cent in 2016 to 68.1 per cent in 2020. Given the fall in the growth of retention of 0.19 points between periods, this indicator did not exhibit momentum in Atlantic Canada.

Unlike Atlantic Canada, immigrant retention rates at the national level (defined as the population weighted average of the provincial retention rates) have been falling. The five-year retention rate fell 0.26 per cent per year from 84.7 per cent in 2012 to 83.9 in 2016. The one-year retention rate fell 0.1 cent per year from 88.3 per cent in 2016 to 88.2 per cent in 2020. Given the 0.25 improvement in performance between periods, this indicator did exhibit momentum.

There is, however, significant variation in immigrant retention rates within Atlantic Canada. In 2020, Nova Scotia had the highest one-year retention rate at 73.4 per cent, followed by Newfoundland and Labrador (66.4 per cent), New Brunswick (66.1 percent), and Prince Edward Island (50.5 per cent).

Median Age

The interpretation of median age (the midpoint of the age structure of a population) as a performance indicator is not straightforward. Longer life expectancy, reflected in median age, is obviously a desirable development. However, it can be argued that a younger population is positive for the economy and society — more dynamic, more amenable to change, more adoptive of new technologies. As well, a younger population carries lower pension and health costs than an older population. For these reasons, a fall in the median age is considered a positive performance indicator within this index.

There are two possible ways to define momentum in terms of median age. First, one could define momentum as an absolute fall in the median age. Second, one could define momentum as a deceleration in the rate of increase (or a larger rate of decline) in median age. For consistency with the definition of momentum used for the other indicators in the scoreboard, we use the second definition.

Atlantic Canada experienced a large rise in the median age of the population from 2008 to 2015, 0.94 per cent per year. In the 2015-2023 period, the median age actually fell 0.06 per cent per year ear, a deceleration of 1.01 percentage points. Increased immigration lowers the median age as immigrants are on average younger than the overall population. This indicator showed momentum

In Canada, the median age grew 0.46 per cent per year in 2008-2015 and then fell 0.03 per cent per year in 2015-2023, a deceleration of 0.50 points. The fall in the advance of the median age in Atlantic Canada after 2015 was twice that of Canada (1.01 points versus 0.50 points) with both showing considerable momentum.

In terms of growth rates, median age growth after 2015 was virtually identical in Atlantic Canada and Canada (-0.06 per cent versus -0.03 per cent).

With its higher share of the population 65 and over, Atlantic Canada in 2021 had an above average median age at 110.4 per cent of the national average (45.3 years versus 41.0 years). After rising from 106.8 per cent of the national average in 2008 to 110.4 per cent in 2015, this relative has now stabilized.

Youth Not in Education, Employment and Training (NEETs)

One measure of the performance of the labour market for youth is the proportion of youth, defined as those aged 15 to 29 who are not employed, in education or training (NEETs). The larger this proportion of NEET rate, the less the labour market is meeting the needs of youth. For this indicator, momentum is defined as a downward change in the rate of growth.

Atlantic Canada experienced a fall in the proportion of NEETs in the youth population from 2008 to 2015 at a 0.47 per cent average annual rate, a positive development. From 2015 to 2023 this downward trend accelerated to 0.92 per cent per year, resulting in a 0.46 percentage point improvement in the growth rate between periods.

In Canada, the proportion of NEETs advanced at a 1.15 per cent average annual rate between 2008 and 2015, a negative development It then fell at a 2.36 per cent average annual rate between 2015 and 2023, resulting in 3.51 point change between the two periods. As was the case in Atlantic Canada, there was considerable momentum at the national level for this indicator.

In absolute terms, the NEET rate was higher in Atlantic Canada than in Canada, although the gap has been falling given the faster NEET growth rate at the national level. In 2008, the NEET rate in Atlantic Canada was 142 per cent of the national level (17 per cent versus 12 per cent). This proportion fell to 115 per cent of the national in 2015 (15 per cent versus 13 per cent) before increasing to 127 per cent in 2023 (14 per cent versus 11per cent).

Educational Attainment

A well-educated population and work force is key for a prosperous economy and well-functioning society. The indicator used to track this characteristic is the proportion or rate of the population aged 25 to 64 with a tertiary education, defined as post-secondary plus trades. The focus is on the 25-64 age group to abstract away from those under 25, most of whom have not yet completed their education, and the 65 and older group. The latter age group has on average lower educational attainment and differences in the relative importance of this group in the overall working age population can affect or bias comparisons between jurisdictions.

Atlantic Canada has enjoyed rapid growth in the educational attainment of its population in recent years. From 2008 to 2015, the proportion with tertiary education increased at a 2.03 per cent average annual rate. The growth rate picked up to 2.84 per cent from 2015 to 2023, an

acceleration of 0.81 points. There is strong momentum in the share of well-educated workers in Atlantic Canada.

At the national level there also has been an upward trend in the tertiary education rate, although at a slower pace than in Atlantic Canada. From 2008 to 2025 the rate advanced at a 1.66 per cent average annual rate picking up to 1.71 per cent in 2015-2023, an acceleration of 0.05 points. There was momentum for this indicator after 2015 at the national level, but less than at the level of Atlantic Canada (0.81 versus 0.05 points).

In absolute terms, the proportion of the population aged 25-64 with tertiary education is lower in Atlantic Canada than in Canada, although the gap has been falling given the faster growth rate of educational attainment in Atlantic Canada. In 2008, the tertiary education rate in Atlantic Canada was 87.8 per cent of the national level (43 per cent versus 48 per cent. This relative rose to 89.1 per cent in 2015 (49 per cent versus 55 per cent, and 97.2 per cent in 2023 (61 per cent versus 63 per cent). The momentum of Atlantic Canada is thus strongly manifested in the acceleration of its rate of increase in the rate of tertiary education and the falling gap in this indicator relative to Canada.

Labour Market Performance

The labour market performance domain contains four indicators: employment rate, employment income and labour productivity and the participation rate of women with children under six. Two of these indicators had momentum in Atlantic Canada and three in Canada

Employment Rate

The proportion of the working age population that is employed, which reflects both the labour force participation rate and the unemployment rate, is an important indicator of the health of a labour market and economy. The higher the rate, the better the labour market performance.

The aging of the population, in particular the rising share of the population in the lowemployment rate 65 and over age group, is exerting a downward effect on the aggregate employment rate. For this reason, we focus on the employment rate for the 15-64 age group.

Atlantic Canada saw the employment rate for the 15-64 age group rise at a 0.13 per cent per year from 2008 to 2015. This growth rate picked up to 0.69 per cent in 2015-2023, an acceleration of 0.57 points. There is momentum in the employment rate.

At the national level there was a downward trend in the employment rate in the 2008-2015 period, -0.20 per cent per year. The trend was then reversed, with the employment rate growing at a 0.60 per cent average annual rate in 2015-2023, an acceleration of 0.82 points.

In absolute terms, the employment rate (15-64) is lower in Atlantic Canada than in Canada, with the gap falling considerably over time. In 2008, the employment rate in Atlantic Canada was 92.3 per cent of the national level (67.8 per cent versus 73.4 per cent). This relative rose to 94.1 per cent in 2015 (68.1 per cent versus 72.4) and to 95.3 per cent in 2023.(72.2 per cent versus

75.8). Like educational attainment, the Atlantic Canadian labour market exhibits strong momentum.

Employment income

Employment income reflects the ability of the labour market to generate income for workers and is an important indicator of labour market performance. There are several indicators that can be used to assess levels and trends in employment income. The Canadian Income Survey provides a measure of employment income on constant 2022 prices for economic families and persons not in an economic family. SEPH provides estimates of average hourly earnings for employees paid by the hour. The Labour Force Survey provides estimates of hourly wages. This section uses the first indicator because it is more comprehensive.

Atlantic Canada experienced growth in real employment income of 0.44 per cent per year from 2008 to 2015. However, from 2015 to 2022 employment income fell 0.07 per cent year, resulting in a slowdown of 0.51 points. per year. There is no momentum in the employment income trend in Atlantic Canada.

At the national level the trends were reversed. From 2008 to 2015 employment income fell at a 0.25 cent average annual rate, then rose 0.36 per cent in 2015-2022, an acceleration of 0.61 points. Unlike Atlantic Canada, there is momentum in the employment rate trend at the national level

In absolute terms, employment income is lower in Atlantic Canada than in Canada, with the gap falling and rising overtime. In 2008, the employment income in Atlantic Canada was 81.7 per cent of the national level (\$58,500 constant 2020 dollar versus \$71,600). This relative rose to 84.6 per cent in 2015 (\$59,800 versus \$70,700) and then fell to 82.1 per cent in 2022 at 82.1 per cent (\$59,500 versus \$72,500).

Labour Productivity

Labour productivity is the key determinant of the standard of living of the population, only with more output produced per hour worked can real incomes rise. Given problems with productivity measurement in the non-business sector, we focus on the business sector productivity, the most widely used productivity metric.

Atlantic Canada experienced negative productivity growth immediately after the financial crisis. From 2008 to 2015, output per hour in the business sector decreased at a 0.82 per cent average annual rate, largely driven by the large fall in productivity in Newfoundland and Labrador due to developments in the oil and gas sector The productivity growth rate picked up to 0.49 per cent from 2015 to 2023, an acceleration of 1.32 points. This indicates strong momentum in the labour productivity performance in Atlantic Canada.

At the national level there was a very different picture. From 2008 to 2015 labour productivity advanced at a 1.16 per cent average annual rate in Canada, falling off to 0.83 per cent in 2015-

2023, a deceleration of 0.33 points. Thus, in contrast to Atlantic Canada, there was negative momentum for this indicator after 2015 at the national level.

The momentum in labour productivity in Atlantic Canada after 2015 compared to Canada should not be conflated with a superior productivity performance for the region. In both periods, output per hour advanced at a slower rate in Atlantic Canada than in Canada: -0.82 per cent versus 1.16 per cent in 2008-2015 and 0.49 per cent versus 0.83 per cent in 2015-2023.

In absolute terms, the level of business sector labour productivity remains lower in Atlantic Canada than in Canada. In 2008, the level of labour productivity in Atlantic Canada was 99.4 per cent of the national level (\$50.7 per hour versus \$51.0 per hour expressed in 2012 chained dollars), up from 84.6 per cent in 1997. This relative fell to 86.6 per cent in 2015 (\$47.9 per hour versus \$55.3 per hour), then further fell to 84.4 per cent in 2023 (\$49.8 per hour versus \$59.1 per hour).

Participation Rate of Women with Children under Six

A barrier to the participation of women is the labour force is the availability of affordable child. care. The introduction of affordable childcare in Quebec in the late 1990s and early 2000s resulted in the participation rate for women with children under six in the province increasing from 66.7 per cent in 1997 to 78.2 per cent in 2004. Quebec's participation rate for women with children under six thus rose from 97.2 per cent of the national average to 107.1 per cent. The federal government has adopted the Quebec model and has announced the creation of 250,000 low price (\$10 per day) childcare spaces by 2026.

The number of available childcare spaces was suggested as an additional indicator for the Atlantic Momentum Index. Unfortunately, Statistics Canada does not publish a consistent time series on childcare spaces. Since the objective of cresting additional childcare spaces is to facilitate women joining the workforce, the result of this policy should be manifested in trends in the participation rate of women with children under six. This was the rationale for the selection of this indicator.

The participation rate of women with children under six in Atlantic Canada rose at a 0.52 per cent from 2008 to 2015. It continued to rise after 2015, but at a lower rate (0.22 per cent per year in 2015-2023), resulting in a deceleration in growth of 0.31 percentage pints between periods. This was no momentum in Atlantic Canada for this indicator.

In contrast, the rate of advance of the participation rate for women with children under six at the national level did exhibit momentum after 2015. This rate increased 0.33 per cent per year in 2008-2015, increasing to 0.95 per cent in 2015-2023, a pick-up of 0.62 points.

The participation rate in Atlantic Canada has historically been below that of the Canadian average. For example, in 2023 the aggregate participation rate in Atlantic Canada was 60 per cent, nearly 6 points below the national average of 65.6 per cent. Consequently, it is of note that the participation rate for women with children under six in Atlantic Canada has since 1997 exceeded the national average (Chart x). In 2008, this participation rate was 106.2 per cent of the

national average (76.7 per cent versus 72.2 per cent), rising to 107.7 per cent in 2015 and then falling to only 101.6 per cent in 2022 (81.0 per cent versus 79.7 per cent).

Innovation and Investment

The innovation and investment performance domain contains five indicators: BERD spending; non-residential investment, non-emitting energy output, investment in renewable energy and greenhouse gas emissions. Two one of the five indicators in this domain (BERD spending and greenhouse gas emissions) had momentum after 2015 in both Atlantic Canada and at the national level.

BERD Spending

Business enterprise in-house expenditure on research and development (BERD) is a key metric of innovation intensity in a jurisdiction and a driver of economic opportunities and growth. It can be measured for a jurisdiction in three ways: in absolute terms (millions of current or constant dollars), on a per capita basis, and as a share of GDP. The indicator chosen to gauge the economic momentum of BERD in this report is the absolute level of BERD in nominal terms. Trends in the other two BERD measures will be provided for context.

Atlantic Canada experienced growth in BERD from 2008 to 2015 at 2.48 per cent per year. BERD growth picked up dramatically to 8.66 per cent per year from 2015 to 2022, an acceleration of 6.18 points. There is thus very strong momentum in BERD performance in Atlantic Canada since the mid-2010s, especially in Newfoundland and Labrador and New Brunswick. This is part reflects the low base of the BERD level

At the national level there has also been a marked acceleration in BERD growth after 2015. From 2008 to 2015 BERD advanced at only a 1.09 per cent average annual rate in Canada. It then picked up to 7.23 per cent in 2015-2022, an acceleration of 6.14 points. The momentum for this indicator was thus greater in Canada than in Atlantic Canada (6.14 points versus 4.55 points), but the strength of BERD growth in both jurisdictions is encouraging.

In per capita terms, the level of BERD in Atlantic Canada was \$383 in 2022 or 38.3 per cent of the national average. BERD is very weak in Atlantic Canada, but there is an upward trend relative to Canada. In 2015, BERD per capita in Atlantic Canada was 33.0 per cent of the national average whereas in 2008 the figure was 28.3 per cent.

The same upward trend is observed for BERD as a share of GDP or BERD intensity. In 2000, BERD intensity in Atlantic Canada was 0.41 per cent of the region's nominal GDP, or 40.2 per cent of the national average of 1.02 per cent. This is up from 33.0 per cent of the national average in 2008 and 38.9 per cent in 2015.

Non-residential investment

Non-residential investment, which includes both machinery and equipment and structures investment by both businesses and governments is a crucial driver of economic activity, both through its short-term aggregate demand effects and its longer-term effects of adding to the capital stock and thereby boosting the capacity of the economy to produce. This indicator is measured in this report in real gross terms in 2017 chained dollars.

Non-residential investment in Atlantic Canada in 2008-2015 was very strong, advancing at 5.02 per cent per year. However, this situation for the region as a whole is somewhat misleading as the strength of non-residential investment was in Newfoundland and Labrador. The Maritime provinces exhibited weak or negative growth in this indicator. After 2015, non-residential investment in Atlantic Canada plummeted, and decreasing at a 5.87 per cent average annual rate in 2015-2022, a fall-off of 10.89 points. Again, Newfoundland and Labrador was responsible for 90 per cent of this decline. For this indicator, there is definitely no momentum in Atlantic Canada.

At the national level there was much less volatility in non-residential investment trends, although there was a fall-off after 2015. Non-residential investment advanced at a 1.36 per cent average annual rate from 2008 to 2015, then fell 0.81 per cent per year from 2015 to 2022, a 2.17 point turnaround.

The lack of momentum in investment in Atlantic Canada since 2015 is manifested by the region's falling share of national non-residential investment. In 2015, the region accounted for 6.6 per cent of Canada's non-residential investment, up from 5.1 per cent in 2008. By 2022, the share had fallen by a third to 4.6 per cent.

Production of Non-emitting Energy

A key metric to gauge progress toward sustainable development is the production (measured in terajoules) of non-emitting energy, defined as primary electricity generated by hydro, nuclear and renewals.

Perhaps surprisingly, growth in the production of non-emitting energy has been slow in both Atlantic Canada and Canada in recent years. From 2008 to 2015 this indicator grew at a rate of 0.62 per cent per year, and then fell at a 0.13 per cent rate from 2015 to 2022, a deceleration of 0.48 points. There is no momentum for this indicator in Atlantic Canada.

At the national level, production of non-emitting energy advanced at a 1.02 per cent average annual rate from 2008 to 2015, then fell off to 0.39 per cent per year in 2015-2022, a deceleration of 0.63 points very similar to the loss of momentum in Atlantic Canada.

<u>Investment in Renewable Energy</u>

A second indicator related to sustainable development is investment in renewable energy, defined a hydro, solar and wind. The results for this indicator for Atlantic Canada are surprising, and at first glance disappointing. One might expect that investment in renewable energy in the region would be booming, but this is not the case in the aggregate. Investment in hydro is by far

the mot important component of renewable energy investment. Newfoundland and Labrador made very large investment in the hydro facilities before 2015 and investments have been much smaller in recent years,

From 2008 to 2015 investment in renewal energy rose from \$124 million current dollars to \$1,173 million, a growth rate of 37.9 per cent. Newfoundland and Labrador accounted for 92 per cent of the investment in 2015, mostly hydro facilities in Labrador. With the completion of these hydro projects, investment in renewable energy in the region plummeted to \$319 million in 2022, a fall of 15.0 per cent per year. There is definitely no momentum in renewable energy investment at the level of Atlantic Canada.

For the Martimes, the trend in renewable energy investment is much different than at the level of Atlantic Canada. Renewable energy investment in Nova Scotia, New Brunswick and Prince Edward Island totaled \$104 million in 2008, falling slightly to \$103 million in 2015 and then more than doubling to \$267 million in 2022. This indicates considerable momentum for this indicator for the Maritimes.

The trend in renewable energy investment for Canada is similar to that in Atlantic Canada than the Martimes. From 2008 to 2015 investment in renewal energy at the national level advanced at a 9.3 per cent average annual rate. This growth rate fell off to 5.36 per cent per year in 2015-2022, indicating a slowdown of 3.94 points. There was no momentum for this indicator.

Greenhouse Gas Emissions

Climate change is the existential challenge of our times. Greenhouse gas emissions have led to an increase in average temperature and to extreme weather events. The federal government has set a goal of net zero emissions by 2060. The tracking of greenhouse gas emissions is this crucial for monitoring progress to attaining this objective.

Environmental cand Climate Change Canada produces estimates of greenhouse emissions by province to 2022. (Statistics Canada produces similar estimates only to 2021). The good news is that both Atlantic Canada and Canada have momentum in the post-2015 trend in this metric,

From 2008 to 2015 greenhouse gas emissions per capita fell 2.80 per cent per year, This rate of decline picked up to 2,83 per cent in 2015-2022, showing momentum of 0.03 points.

The rate of decline of greenhouse gas emissions per capita was much slower in both periods in Canada: -1.27 per cent per year in 2008-2015 and -1.97 per cent in 2015-2022, but there was greater momentum after 2017, a 0,69 percentage point fall.

The much strong fall in greenhouse gas emissions per capita in Atlantic Canada than in Canada has resulted. In the region's emissions falling from 96.6 per cent of the national average in 2008, to 86.6 pr cent in 20165 to 81.4 per cent in 2022.

Quality of Life

The quality of life domain contains seven indicators: the Gini coefficient, housing affordability housing starts, access to a family physician, poverty rate, life satisfaction a sense of belonging. Atlantic Canada experienced momentum in only three of these seven indicators, with Canada experiencing momentum in four indicators

Gini coefficient

Equality is an important component of the economic well-being or standard of living of the population. There are a number of measures of income distribution, with the Gini coefficient being the best known. The specific metric used in this report is the after tax measure, which exhibits lower levels of inequality than the market income measure and the money income measure. An improvement in the trend toward greater equality is defined in this report as a sign of momentum for this indicator.

After rising in the 1980s and 1990s, income distribution, as measured by the Gini coefficient, in the 21st century has been stable or a slight downward trend in Canada.

In Atlantic Canada, the Gini coefficient rose 0.29 per cent per year between 2008 and then fell at a 0.84 per cent average annual rate from 2015 to 2022, a change of 1.14 points between periods and a manifestation of the momentum of this indicator.

At the national level, the Gini coefficient was unchanged between 2008 and 2015 and then fell 0.65 per cent per year from 2015 to 2022, an improvement of 0.65 points. Income inequality gained momentum at the national level, but at a somewhat slower pace than in Atlantic Canada (0.65 points versus 1.14 points).

The level of income inequality is less in Atlantic Canada than in Canada. In 2022, the Gini coefficient in Atlantic Canada was 92.7 per cent of the national average (0.278 versus 0.300). It was the slightly higher in 2015 at 93.9 per cent (0.295 versus 0.314) given the greater fall in the Gini in Atlantic Canada in 2015-2022, It was 92.0 per cent of the national average in 2008 (0.289 versus 0.314).

Housing Affordability

Housing affordability has become a major issue for Canadians. Large increases in housing prices as well as higher interest rates have priced many people, especially first-time home buyers, out of the housing market.

The Centre for the Study of Living Standards has constructed a housing affordability measure defined as the ratio of average housing prices to average family income. This rate of change in this ratio has increased significantly after 2015 in both Atlantic Canada and Canada, indicating lack of momentum in this indicator.

Between 2008 and 2015 housing actually became more affordable in Atlantic Canada. The ratio of housing prices to income fell at a 0,51 per cent average annual rate from 2.22 to 2.14. The situation changed dramatically after 2015. The ratio of housing prices to income rose at a 4.24 per cent rate, reaching 2.87 in 2022, a turnaround of 4.75 point.

At the national level the ratio of housing prices to income increased at a 1.74 per cent average annual rate between 2008 and 2015 from 3.55 to 4.00. After 2015 the rate of increase in the ratio picked up to 4.75 per cent per year, an increase of 3.01 points.

In absolute terms, housing is more affordable relative to income in Atlantic Canada than in Canada. Indeed, in 2022 the ratio of housing prices to income in Atlantic has around half (51.8 per cent) of that in Canada (2.87/5.54). Relatively inexpensive housing compared other regions of Canada is a competitive advantage of the region. Indeed, this advantage has actually increased somewhat since 2015 (53.4 per cent of the national average) While housing affordability has deteriorated in both Atlantic Canada and Canada in recent years, the deterioration was slightly less in Atlantic Canada.

Housing starts

Housing is a key contributor to living standards and an adequate supply of housing requires increased housing supply to match demand growth. Trends in housing starts in units are an indicator of housing supply.

Atlantic Canada saw a collapse in housing starts from 2008 to 2015, down 5.76 per cent per year. Housing starts then rebounded strongly between 2015 and 2023, advancing at a 6.95 per cent average annual rate, for an acceleration in the growth rate of 12.71 points. Housing starts in Atlantic Canada have thus enjoyed very strong momentum since 2015.

At the national level housing starts followed a similar, but more muted pattern. They fell 1.09 per cent per year between 2008 and 2015 and then rebounded 2.61 per cent between 2015 and 2023, a turnaround of 3.69 points. Economic momentum for this indicator is much greater in Atlantic Canada because of the greater fall in 2008-2015.

Access to a Family Physician

An important aspect of living standards is a healthy population. Ready access to medical services is required to ensure the population remains in good health. One metric of this access is the proportion of the population that has access to a regular family physician.

In Atlantic Canada, there has been a downward trend in the proportion of the population that has access to a family physician This fell at a 0.37 per cent average annual rate in 2009-2015 (data are not available for 2008) and at a 1.02 per cent rate in 2015-2022. With larger fall in the second period, there was no momentum in this indicator.

At the national level, the proportion of Canadians with access to a family physician fell 0.30 between 2009 and 2015. However, unlike in Atlantic Canada, this indicator advanced 0.47 per cent per year between 2015 and 2022, a turnaround of 0.77 points.

In 2022, the proportion of Atlantic Canadians aged 12 and older with access to a family doctor was 83.1 per cent, 2.9 percentage points below the national average of 86.0 per cent and below the national average (96.6 per cent). This represented both an absolute fell in access from 91.2 per cent in 2009, 89.2 per cent in 2015, and even 87.2 per cent as recently as 2021. In relative terms access in Atlantic Canada has fallen from 107.7 per cent of the national average in 2009 to 107.2 per cent in 2015m 102.1 per cent in 2021 to 96.6 per cent in 2022. Access to a family doctor is becoming much more of an issue in Atlantic, Canada, with the severity of the problem greater than the Canadian average.

Poverty

A key aspect of the standard of living of a region is the proportion of the population living in poverty. Statistics Canada has historically published two measures of low income, the LICO or Low Income Cut-off, an absolute poverty measure and the LIM, or Low Income Measure, a relative measure defined at the proportion of the population below one half median income.

In 2018, the federal government designated an official poverty measure, the Market Basket Measure or MBM, which combines elements of both absolute and relative approaches to poverty. The base year for the expenditure weights used in the MBM is updated frequently which poses problems for consistency in time series. The current MBM uses a 2018 base, with estimates only going back to 2015. To create a time series back to 2008 needed for calculation of momentum in this report, the MBM estimates using the 2010 base were linked to the MBM (2018 bases) in the overlap year of 2015.

The poverty rate has been on a downward trend in Atlantic Canada and in Canada since 2008, with the trend accelerating since 2015. Both jurisdictions have momentum for this indicator.

In Atlantic Canada, the poverty rate fell at a 1.68 per cent average annual rate from 17.7 per cent in 2008 to 15.0 per cent in 2015, The poverty rate then fell 4.35 per cent per year in 2015-2022 reaching 11.5 per cent in 2022. The change in the rate of decline between periods was 3.96 points, a sign of significant momentum

The pattern observed in the evolution of the poverty rate in Atlantic Canada also took place at the national level. The poverty rate fell 0.35 per cent per year from 14.9 per cent in 2008 to 14.5 per cent in 2015. It then picked up speed falling 5.31 per cent per years from 2015 to 2022, reaching 9.9 per cent in 2022. The change in the rate of decline between periods was 4.96 points, a sign of significant momentum

The poverty rate in Atlantic Canada has historically been above that of Canada. In 2008, the poverty rate in Atlantic Canada was 119.0 per cent of the national average, falling to 108,3 per cent in 2015 as the Atlantic rate fell at a faster pace than the national rate. After 2015, with the

rate of decline greater in Canada than in Atlantic Canada, the region's relative poverty rate rose to 116.2 per cent of the national average by 2022.

Life Satisfaction

Statistics Canada asks Canadians to rate their overall satisfaction with life on a scale of 1 (extremely dissatisfied) to 10 (extremely satisfied). This measure of subjective well-being, or happiness is a very important part of the perceived quality of life in a jurisdiction. The proportion of the population 12 and over stating they are satisfied or very satisfied with their lives is the indicator for life satisfaction used in this report.

The level of life satisfaction in Atlantic Canada declined at a 0.24 per cent average annual rate from 2008 to 2015. It then turned positive growing 0.18 per cent per year from 2015 to 2021. However, in 2022 it fell 7.4 per cent from 92.3 per cent of the population satisfied or very satisfied to 85.5 per cent, Thus resulted in a 0.94 per cent average annual decline in life satisfaction in 2015-2022. There is no momentum for the life satisfaction indicator in Atlantic Canada.

It should be noted that life satisfaction in Atlantic Canada has been very stable over time. From 2002 to 2021 it ranged between a low of 91.8 per cent and a high of 93.0 per cent. The fall in life satisfaction in 2002 to 85.5 per cent is unprecedented and merits investigation. It is possible that statistical issues account for this fall, so caution should be exercised in the interpretation of this development.

At the national level life satisfaction rose 0.28 per cent per year from 2008 to 2015, in contrast to the fall in Atlantic Canada. From 2015 to 2021 life satisfaction declined slightly before plummeting 5.4 per cent in 2022. Over the 2015-2022 period, life satisfaction fell at a 0.94 per cent average annual rate in Canada, virtually the same as in Atlantic Canada

Even with the massive decline in life satisfaction in 2022, the overall level of life satisfaction is remarkably similar across the provinces. Indeed, it would be hard to find another indicator that exhibited so little inter-provincial variation.⁴ In 2022, the life satisfaction in Atlantic Canada with 85.5 per cent of the population 12 and over satisfied or very satisfied with their lives was virtually identical to that in Canada (98.1 per cent). In 2008, Atlantic Canadians were slightly more satisfied with life than Canadians at 101.6 per cent of the national average, but this fell to 98.0 per cent of the national average in 2015.

Sense of Belonging

A key determinant of happiness is the sense of belonging to the local community. Statistics Canada asks Canadians this question each year in the Canadian Community Health Survey.

⁴ In 2022 the province with the highest proportion of the population 12 and over satisfied or very satisfied with their lives was Quebec at 90.5 per cent and the province with the lowest proportion was British Columbia at 85.3 per cent.

The proportion of persons 12 and over in Atlantic Canada who reported that they felt a sense of belonging to the local community increased at a 0.14 per cent average annual rate from 2008 to 2015, It continued to increase from 2015 to 2021 and then plummeted 8.7 per cent in 2022, resulting in a 0.95 per cent average annual change in the sense of belonging of Atlantic Canadians in 2015-2022 There is momentum for this indicator in the region.

Like life satisfaction, sense of belonging in Atlantic Canada has been quite stable over time. The fall in sense of belonging in 2002 to 70.5.per cent from 77.2 per cent in 2021 is unprecedented and merits investigation. It is possible that statistical issues account for this fall, so caution should be exercised in the interpretation of this development

At the national level the proportion of the population reporting a sense of belonging advanced a strong 0.65 per cent per year from 2008 to 2015, It continued to increase from 2015 to 2021 and then plummeted 8.2 per cent in 2022, resulting in a 0.75 per cent average annual fall in the sense of belonging of Canadians in 2015-2022. Again, the fall from 69,5 per cent of Canadians reporting a sense of belonging in 2021 to 64.5 per cent in 2022 is unprecedented.

Atlantic Canadians exhibit a consistent and significantly higher sense of belonging to the local community than Canadians in general. In 2022, 70.5 per cent of the population in Atlantic Canada reported a sense of belonging to the local community, 109.3 per cent of the national proportion. The region's superior performance on this indicator was even better in the past, at 109.2 in 2022, .110.7 per cent in 2015 and 114.8 per cent in 2008..

Summary of Indicators

Table 3 summarizes the scoreboard for Atlantic Canada in terms of momentum. It highlights in blue the 14 indicators for which the region exhibited momentum and provides the growth rates for the 2008-2015 and 2015-2021/22 periods upon which the momentum calculation is based.

Table 3: Atlantic Canada Scorecard on Momentum (average annual rate of change)

		2008-2015	2015-2022/23	Difference in Growth Rate
Macro-	Real GDP	0.10	1.14	1.04
economy	Real GDP per capita	-0.11	0.20	0.31
	Real Exports	-1.93	-0.44	1.49
	Population	0.21	1.20	0.99
7.7	Median Age	0.94	-0.06	-1.01
Human Capital	Immigration	10.43	13.21	2.78
Capitai	Immigration Retention	0.50	0.31	-0.19

	Proportion of NEET	-0.47	-0.92	-0.46
	Proportion of Population with Tertiary Education	2.03	2.84	0.81
	Employment Rate	0.13	0.68	0.55
Labour Market	Employment Income Labour Productivity	0.44 -0.82	-0.07 0.49	-0.51 1.32
Performance	Labour Force Participation of Women with Children under Six	0.52	0.22	-0.31
	BERD Spending	2.48	8.66	6.18
Innovation	Non-Residential Investment	5.02	-5.87	-10.89
and	Non-Emitting Energy	0.62	0.13	-0.48
investment	Investment in Renewal Energy	37.85	-15.02	-52.87
	Greenhouse Gas Emissions	-2.80	-2.83	-0.03
	Gini Coefficient	0.29	-0.84	-1.14
	Housing Starts	-5.76	6.95	12.71
Quality of Life	Housing Affordability	-0.51	4.24	4.75
	Poverty Rate	-1.68	-4.35	-2.67
	Access to Family Physician	-0.37	-1.02	-0.65
	Life Satisfaction	-0.24	-0.94	-0.70
	Community Belonging	0.14	-0.95	-1.09

^{*}Note: a negative change in the rate of change of the variables Median Age, the Gini Coefficient, GHG Emissions, Housing Affordability, Poverty rate and Proportion of NEET between the two periods is indicative of positive momentum. For all other variables, positive momentum is associated with a positive change **Indicators in blue exhibit momentum

Table 4 provides similar information for Canada, with the nine indicators showing momentum at the national level in blue.

Table 4: Canada Scorecard on Momentum (average annual rate of change)

	2008-2015	2015-2022/23	Difference in Growth Rate
Real GDP	1.54	1.78	0.24
Real GDP per capita	0.51	0.54	0.02
Real Exports	1.61	1.03	-0.59
Population	1.02	1.46	0.44
Median Age	0.46	-0.03	-0.50
Immigration	4.02	5.46	1.44
Immigration	-0.26	-0.01	0.25
Retention			
Proportion of NEET	1.15	-2.07	-3.22
Proportion of			
Population with	1.66	1.71	0.05
•			
Employment Rate	-0.20	0.58	0.77
Employment	-0.25	0.36	0.61
			0.01
	1.16	0.83	-0.33
	0.33	0.95	0.62
	1.09	7.23	6.14
	1.36	-0.81	-2.17
•	1.02	0.39	-0.63
	0.20	5.26	2.04
	9.30	5.36	-3.94
	1 07	1.07	0.60
	-1.27	-1.97	-0.69
	0.00	0.65	-0.65
			3.69
			3.09
	1./4	4.73	5.01
_	-0.30	0.47	0.77
1 Hysician	0.25	F 21	1.06
Poverty Rate	-0.33	-3.31	-4.96
Life Satisfaction	0.28	-0.95	-1.23
Community Belonging	0.65	-0.75	-1.40
	Real GDP per capita Real Exports Population Median Age Immigration Immigration Retention Proportion of NEET Proportion of NEET Proportion of Population with Tertiary Education Employment Rate Employment Income Labour Productivity Labour Force Participation of Women with Children under Six BERD Spending Non-Residential Investment Non-Emitting Energy Investment in Renewal Energy Greenhouse Gas Emissions Gini Coefficient Housing Starts Housing Affordability Access to Family Physician Poverty Rate Life Satisfaction	Real GDP per capita Real Exports 1.61 Population 1.02 Median Age 0.46 Immigration 4.02 Immigration -0.26 Retention Proportion of NEET 1.15 Proportion of NEET 1.15 Proportion of Population with Tertiary Education Employment Rate -0.20 Employment Income 1.16 Labour Productivity 1.16 Labour Force Participation of Women with Children under Six BERD Spending 1.09 Non-Residential Investment Non-Emitting Energy 1.02 Investment 9.30 Renewal Energy Greenhouse Gas Emissions Gini Coefficient 0.00 Housing Starts -1.09 Housing Affordability Access to Family Physician -0.35 Community 0.65	Real GDP 1.54 1.78 Real GDP per capita 0.51 0.54 Real Exports 1.61 1.03 Population 1.02 1.46 Median Age 0.46 -0.03 Immigration 4.02 5.46 Immigration Retention -0.26 -0.01 Proportion of NEET 1.15 -2.07 Proportion of Population with Tertiary Education 1.66 1.71 Employment Rate -0.20 0.58 Employment Rate -0.25 0.36 Labour Productivity 1.16 0.83 Labour Productivity 1.

*Note: a negative change in the rate of change of the variables Median Age, the Gini Coefficient, GHG Emissions, Housing Affordability, Poverty rate and Proportion of NEET between the two periods is indicative of positive momentum. For all other variables, positive momentum is associated with a positive change **Indicators in blue exhibit momentum

V. Conclusion

Atlantic Canada is showing economic momentum. Out of the 25 indicators chosen for this study, 15 indicators exhibit momentum after 2015 compared to the 2008-2015 period. However, the momentum is relatively less than found in n last years Atlantic Momentum Index report where 14 out of 20 indicators that exhibited momentum.

In contrast to the weaker momentum performance in Atlantic Canada, momentum picked up in Canada, with 17 out of 25 indicators exhibiting momentum, compared to 10 of 20 indicators in the 2023 report. Much stronger economic growth in Canada than in Atlantic Canda in 2022 accounted for this reversal of fortunes.

Momentum in Atlantic Canada since 2015 has been particularly strong for a number of economic indicators, including housing starts (12.7 points), BERD (6.18 points), immigration (2.78 points), real exports (1.49 points), labour productivity (1.32 points), and real GDP (1.04 points),

The indicators performing worse on momentum were renewal energy investment (-52.9 points) non-residential investment (-10.9 points), and housing affordability (-4.75 points).

Surprisingly, very large falls in 2022 in life satisfaction and sense of belonging resulted in the loss of momentum for these two indicators in Atlantic Canada. Large falls also occurred at the national level.

There is no one province that dominates Atlantic Canada. The largest province, Nova Scotia. has around 40 per cent of the population of the region, roughly comparable to the role of Ontario in Canada. However, two caveats are needed. First, for various reasons, developments in a province may differ significantly from that in the Atlantic Canada aggregate. Second, very large swings in an indicator in one province can affect the Atlantic Canada aggregate, as was seen in the very volatile behaviour of non-residential investment in Newfoundland and Labrador. For this reason, it is important to note that the trends for an indicator documented for Atlantic Canada may not apply to a particular province. Further analysis at the provincial level would be needed.

VI. Appendix Tables

Appendix Table 1: Indicator Levels in 2000, 2008, 2015, 2022/23

Year	Canada	Atlantic Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick
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		2000	1,536,666	92,575	23,153	5,014	34,907	29,501
	Real GDP	2008	1,847,690	114,769	34,137	5,807	40,219	34,606
	(Chained (2017)	2015	2,056,255	115,607	32,709	6,351	41,868	34,679
	dollars, millions							
	of dollars)	2021	2,240,936	123,775	32,847	7,590	46,082	37,256
	,	2022	2,326,537	125,165	32,293	7,807	47,407	37,658
		2000	50,078	39,414	43,853	36,741	37,381	39,308
	Real GDP	2008	55,574	49,192	66,728	41,853	42,974	46,334
	per Capita (2017	2015	57,594	48,820	61,935	43,938	44,706	45,700
	dollars)	2013	58,623		63,112		46,495	47,136
				50,178		46,068	,	
Macro-		2022	59,762	49,503	61,397	45,738	46,490	46,373
economy								
		2000	852891	51931	12714	2367	15063	
	Real Exports	2008	915312	67855	21999	2753	17364	21787
	(2017 dollars,	2015	1023730	59198	15151	3214	15557	25739
	x1,000,000)							25276
		2021	1068831	58704	15444	3467	15412	24381
		2022	1099608	57396	14993	3670	16226	22507
		2000	37.5	37.1	36.5	37.0	38.0	37.2
		2008	39.2	40.4	40.1	40.2	40.8	41.1
	Median Age	2015	40.6	42.2	42.4	42.1	43.0	42.7
	Median Age	2013	41.2	43.3	43.5	42.9	44.1	43.7
		2022	41.2	43.4	43.6		44.1	
		2023	41.3	43.4	45.0	43.0	44.2	43.8
		2000	30,685,730	2,348,774	527,966	136,470	933,821	750,517
		2008	33,247,118	2,333,104	511,581	138,749	935,897	746,877
	Domulation	2008				,	935,897	
	Population		35,702,908	2,368,030	528,117	144,546		758,842
		2022	38,929,902	2,528,446	525,972	170,688	1,019,725	812,061
		2023	40,097,761	2,605,777	538,605	173,787	1,058,694	834,691
		2000/2001	252 527	2255	445	100	1 7 47	074
	1	2000/2001	252,527	3255	445	189	1,747	874
	Immigration as	2008/2009	245,289	6658	571	1,723	2,446	1,918
	share of	2015/2016	323,192	13335	1,420	2,015	5,442	4,458
	population (%)	2021/2022	492,984	28,496	2,843	3,436	13,816	8,401
Human		2022/2023	468,817	31,776	5,337	3,116	12,303	11,020
Capital								
		2012	84.7	53.8	49.5	25.2	65.8	47.4
	Immigrant	2014	84.6	50.3	46.2	28.1	62.5	42.4
		2016 (5yr)	83.9	54.9	46.2	30.9	62.7	56
	Retention Rate	2016 (1yr)	88.3	67.2	55	60.2	72.9	70.1
	(%)	2019	87.7	71.2	63.4	58.3	76.7	72.2
		2020	88.2	68.1	66.4	50.5	73.4	66.1
		2020	00.2	00.1	00			
		2020	00.2	06.1				
		2008	12	15.5	19	15	14	15
	NEET (0/)*						14 13	15 16
	NEET (%)*	2008	12	15.5	19 17 17	15		
	NEET (%)*	2008 2015	12 13	15.5 15.0	19 17	15 15	13	16
		2008 2015 2022 2023	12 13 11 11	15.5 15.0 13.9 13.9	19 17 17 14	15 15 10 15	13 12 11	16 15 11
	Proportion of	2008 2015 2022 2023 2000	12 13 11 11	15.5 15.0 13.9 13.9	19 17 17 14	15 15 10 15	13 12 11	16 15 11
	Proportion of Population (25–	2008 2015 2022 2023 2000 2008	12 13 11 11 40 49	15.5 15.0 13.9 13.9	19 17 17 14 26 36	15 15 10 15 36 45	13 12 11 37 43	16 15 11 37 46
	Proportion of Population (25– 64-year-olds)	2008 2015 2022 2023 2000 2008 2015	12 13 11 11 40 49 55	15.5 15.0 13.9 13.9 34 43 49	19 17 17 14 26 36 41	15 15 10 15 36 45 53	13 12 11 37 43 52	16 15 11 37 46 50
	Proportion of Population (25–	2008 2015 2022 2023 2000 2008	12 13 11 11 40 49	15.5 15.0 13.9 13.9	19 17 17 14 26 36	15 15 10 15 36 45	13 12 11 37 43	16 15 11 37 46

Labour Market Performance	Employment Rate (15-64) (%)	2000 2008 2015 2022 2023	70.9 73.5 72.5 75.6 75.8	62.7 68.0 68.9 71.8 72.2	53.2 60.6 65.3 67.3 67.8	68.7 71.7 72.7 74.2 75.2	65.6 69.8 69.8 73.2 73.2	64.9 70.2 69.5 72.5 73.3
		,						
	Employment Income for Economic families (EF) and persons not in an EF (2022 dollars)	2001 2008 2015 2021 2022	60,300 64,800 64,100 73,400 72,500	49,600 53,000 54,200 61,900 59,500	46,200 50,800 68,700 63,700 64,400	43,800 52,400 47,700 64,000 57,200	50,600 54,000 52,300 61,200 58,700	51,900 53,100 53,700 61,300 58,900
Labour Market Performance	Labour Productivity (2017 dollars per hour)	2000 2008 2015 2022 2023	47.1 51.0 55.3 60.4 59.1	41.2 50.7 47.9 52.5 49.8	62.0 92.3 75.3 76.5 70.6	30.9 33.7 35.7 42.8 40.5	35.1 36.5 39.2 44.6 43.7	36.8 40.4 41.3 45.9 44.4
	Labour Force Participation of Women with Children under Six (%)	2000 2008 2015 2022 2023	69.8 72.2 73.9 79.0 79.7	70.4 76.7 79.6 82.4 81.0	68.8 74.3 77.6 85.9 82.3	82.5 81.1 84.6 82.1 86.4	68.5 76.5 79.6 81.0 79.8	71.9 77.8 80.1 82.1 80.3
	BERD (current dollars)	2000 2008 2015 2020 2021	12,395 16,644 17,954 22,638 27,287	132 331 393 513 591	20 90 116 172 187	5 15 22 27 33	67 105 165 179 200	40 121 90 135 171
	Non-Residential Investment (2017 dollars)	2000 2008 2015 2021 2022	136,391 198,330 218,001 197,959 205,883	8,299 10,283 14,487 9,501 9,485	2,502 2,998 8,712 4,160 3,946	307 473 322 483 490	2,887 2,814 2,990 2,384 2,569	2,603 3,998 2,463 2,474 2,480
Innovation and Investment	Non-Emitting Energy Production (terajoules)	2000 2008 2015 2021 2022	1,524,480 1,685,425 1,809,683 1,820,030 1,859,837	181,754 172,334 179,921 182,891 181,618	152,318 150,474 143,490 145,236 145,204	0 510 2,182 2,159 1,761	3,328 4,531 6,586 7,365 7,327	26,108 16,819 27,663 28,130 27,327
	Investment in Renewable Energies (Wind, Solar and Hydro) per Capita (Current Dollars)	2000 2008 2015 2022 2023	837 2629 4898 6917 7437	58 124 1173 297 319	28 20 1070 49 52	0 7 0 3 3	21 40 81 130 140	9 57 22 115 124

		2000	24.4	22.9	17.3	14.4	23.5	27.5
	Total Tonnes of	2008	22.8	22.1	20.5	13.1	22.4	24.4
	GHG Emissions per	2015	20.9	18.1	20.5	10.7	17.6	18.4
	Capita	2013	18.3	14.9	16.0	10.7	14.7	15.2
	Сарна	2021	18.2	14.8	16.2	9.6	14.7	15.4
		2022	10.2	14.0	10.2	9.0	14.4	13.4
		2000	0.317	0.295	0.302	0.285	0.295	0.29
	Gini Coefficient	2008	0.314	0.289	0.301	0.263	0.294	0.27
	(adjusted after-tax	2015	0.314	0.295	0.314	0.282	0.297	0.27
	income)	2021	0.288	0.268	0.282	0.252	0.264	0.26
		2022	0.300	0.278	0.283	0.254	0.28	0.27
		2000	151,653	9,680	1,459	710	4,432	3,07
		2008	211,056	12,229	3,261	712	3,982	4,27
	Housing Starts	2015	195,535	8,075	1,697	558	3,825	1,99
	(units)	2022	261,849	13,091	1,379	1,318	5,714	4,68
		2023	240,267	13,823	978	1,139	7,159	4,54
		2005	3.17	2.13	2.25	1.97	2.17	2.03
	Housing	2008	3.47	2.28	2.63	1.98	2.29	2.08
	Affordability	2015	4.00	2.14	2.51	1.83	2.17	1.86
	Arrordaomity	2021	5.26	2.56	2.25	2.81	3.02	2.11
		2022	5.54	2.87	2.30	3.04	3.41	2.53
		2001	87.7	92.6	86.2	93.6	94.4	94.6
		2009	84.7	91.2	87	90.4	93	92.
	Physician Access	2015	83.2	89.2	88.1	88.7	88.7	90.8
	(%)	2021	85.5	87.3	87.5	80.5	86.3	89.8
verall		2022	86.0	83.1	81.9	75.9	85.2	89.3
sfaction		2002	19.4	27.6	29.4	26.0	27.3	25.9
	Dovombry Data	2008	14.9	17.7	15.9	14.6	19.6	17.0
	Poverty Rate (%)	2015	14.5	15.7	13	15.7	16.8	16.2
	(70)	2021	7.4	7.8	8.1	7.4	8.6	6.7
		2022	9.9	11.5	9.8	9.8	13.1	10.9
	Life Satisfaction:	2003	91.3	92.7	93.9	94.3	92.7	91.7
	Answered satisfied	2008	91.4	92.9	93.4	93.9	92.3	93.2
	or very satisfied	2015	93.2	91.3	90.8	94.2	92.3	90.0
	(%)	2021	92.2	92.3	92.1	93.1	92.4	92.2
	. ,	2022	87.2	85.5	86.9	84.1	85.3	85.6
	Community	2	63.9	73.5	79.9	73.7	70.9	72.3
	Belonging:	003	65.0	73.5 74.6	81.3	75.9	73.3	71.3
	Answered	2008	68.0	75.3	79.1	73.9 77.6	75.3 76.4	70.9
	somewhat strong or	2015	69.5	73.3 77.2	80.5	78.1	75.8	76.7
	very strong (%)	2021	64.5	70.5	74.5	68.4	69	69.9
	(70)	2022	04.5	10.5	17.5	00.7	0)	0).,

Note: * The NEET proportion for Atlantic Canada is calculated using the population weights of each of the Atlantic provinces. Official Statistics Canada data for all provinces have rounded up the NEET proportion to the nearest whole number. Hence, the Atlantic Canada estimates are inconsistent with the rest of provinces.

Appendix Table 2: Growth Rates of Indicators, 2008-2015, 2015-2022/23 and Change between Periods

		Growth Rate (GR) or Absolute Difference (AD)	Period	Canada	Atlantic Canada	NFLD	Prince Edward Island	Nova Scotia	New Brunswick
		(1112)	2008 - 2015	1.54	0.10	-0.61	1.29	0.58	0.03
	Real GDP	GR	2015 - 2022	1.78	1.14	-0.18	2.99	1.79	1.18
	110411 021	Difference		0.24	1.04	0.43	1.71	1.22	1.15
		2	2008 - 2015	0.51	-0.11	-1.06	0.70	0.57	-0.20
Macro-	Real GDP per	GR	2015 - 2022	0.53	0.20	-0.12	0.58	0.56	0.21
economy	capita	Difference	2013 2022	0.02	0.31	0.93	-0.12	-0.01	0.41
		Difference	2008 - 2015	1.61	-1.93	-5.19	2.24	-1.56	-0.26
	Daal Essanta	GR	2015 - 2022	1.03	-0.44	-0.15	1.91	0.60	-1.64
	Real Exports	Difference	2013 - 2022	-0.59	1.49	5.04	-0.32	2.16	-1.38
		Difference	2009 2015						
	Don locker	GR	2008 - 2015	1.02	0.21	0.46	0.59	0.01	0.23
	Population	D 100	2015 - 2023	1.46	1.20	0.25	2.33	1.54	1.20
		Difference	2000 2015	0.44	0.99	-0.21	1.74	1.53	0.97
		GR	2008 - 2015	0.46	0.94	0.95	0.84	0.89	1.02
	Median Age		2015 - 2023	-0.03	-0.06	0.75	-0.58	-0.28	0.08
		Difference		-0.50	-1.01	-0.20	-1.42	-1.17	-0.94
	Immigration	GR	2009 - 2016	4.02	10.43	13.90	2.26	12.10	12.80
			2016 - 2023	5.46	13.21	20.82	6.43	12.36	13.80
Human Capital		Difference	2012 2016	1.44	2.78	6.92	<u>4.16</u>	0.26	1.00
Capitai	Immigration	GR	2012 - 2016 2016 - 2020	-0.26 -0.01	0.50 0.31	-1.71 4.82	5.23 -4.30	-1.20 0.17	4.26 -1.46
	Retention	Difference		0.25	-0.19	6.53	-9.53	1.37	-5.71
		CD	2008 - 2015	1.15	-0.47	-1.58	0.00	-1.05	0.93
	Proportion of NEET	GR	2015 - 2023	-2.07	-0.92	-2.40	0.00	-2.07	-4.58
	TIEL I	Difference		-3.22	-0.46	-0.82	0.00	-1.01	-5.50
	Proportion of Population	GR	2008 - 2015	1.66	2.03	1.88	2.37	2.75	1.20
	(25–64-year- olds) with Tertiary	OK .	2015 - 2023	1.71	2.84	4.20	2.58	2.22	2.31
	Education	Difference		0.05	0.81	2.33	0.22	-0.53	1.11
		GR	2008 - 2015	-0.20	0.13	0.99	0.16	-0.04	-0.18
	Employment Rate (15-64)	GK	2015 - 2023	0.58	0.68	0.57	0.48	0.69	0.74
	Rate (13-04)	Difference		0.77	0.55	-0.42	0.32	0.73	0.92
Labour		a-	2008 - 2015	-0.25	0.44	6.27	-1.86	-0.61	0.17
Market Performance	Employment	GR	2015 - 2022	0.36	-0.07	-2.32	1.18	0.22	-0.07
	Income	Difference		0.61	-0.51	-8.59	3.04	0.83	-0.24
	Labour		2008 - 2015	1.16	-0.82	-2.87	0.83	1.02	0.32
	Productivity	GR	2015 - 2023	0.83	0.49	-0.80	1.59	1.37	0.91
	1	<u> </u>	<u> </u>						

		Difference		-0.33	1.32	2.06	0.76	0.34	0.59
	Labour Force	GR	2008 - 2015	0.33	0.52	0.62	0.61	0.57	0.42
	Participation of Women	GK	2015 - 2023	0.95	0.22	0.74	0.26	0.03	0.03
	with Children under Six	Difference		0.62	-0.31	0.12	-0.34	-0.54	-0.39
		==	•						
		GR	2008 - 2015	1.09	2.48	3.69	5.62	6.67	-4.14
	BERD Spending	UK	2015 - 2021	7.23	8.66	8.28	6.99	3.26	11.29
		Difference		6.14	4.55	4.59	1.37	0.57 0.03 -0.54 62 6.67 99 3.26 37 -3.41 34 0.86 18 -2.14 .53 -3.02 .08 5.49 02 1.53 .09 -2.63 00 10.61 /A 7.08 /A -3.53 91 -3.32 .55 -2.85 36 0.47 00 0.15 48 -0.98 42 -0.57 .54 7.72 .55 -0.91 .53 6.63 48 7.54	15.43
	Non-	CD	2008 - 2015	1.36	5.02	16.46	-5.34		-6.69
	Residential	GR	2015 - 2022	-0.81	-5.87	-10.70	6.18		0.10
	Investment	Difference		-2.17	-10.89	-27.16	11.53	-3.02	6.78
	Non-	GR	2008 - 2015	1.02	0.62	-0.68	23.08	5.49	7.37
Innovation and	Emitting	GK	2015 - 2022	0.39	0.13	0.17	-3.02	1.53	-0.17
investment	Energy	Difference		-0.63	-0.48	0.85	-26.09	-2.63	-5.53
	Investment	GR	2008 - 2015	9.30	37.85	76.57	-100	10.61	-12.72
	in Renewable	UK	2015 - 2023	5.36	-15.02	-31.48	N/A	3.26 -3.41 0.86 -2.14 -3.02 5.49 1.53 10.61 7.08 -3.53 -3.32 -2.85 0.47 0.15 -0.84 -0.98 -0.57 7.72 8.72 -0.91 6.63	24.13
	Energy	Difference		-3.94	-52.87	-108.04	N/A	-3.53	36.85
	Greenhouse	GR	2008 - 2015	-1.27	-2.80	0.00	-2.91	0.03 -0.54 6.67 3.26 -3.41 0.86 -2.14 -3.02 5.49 1.53 -2.63 10.61 7.08 -3.53 -3.32 -2.85 0.47 0.15 -0.84 -0.98 -0.57 7.72 8.72 -0.91 6.63 7.54	-4.00
	Gas	OK	2015 - 2022	-1.97	-2.83	-3.30	-1.55	-2.85	-2.46
	Emissions	Difference		-0.69	-0.03	-3.29	1.36	0.47	1.54
	Gini	GR	2008 - 2015	0.00	0.29	0.61	1.00		-0.31
	Coefficient		2015 - 2022	-0.65	-0.84	-1.47	-1.48	-0.84	0.10
		Difference		-0.65	-1.14	-2.08	-2.48		0.41
	Housing	GR	2008 - 2015	-1.09	-5.76	-8.91	-3.42		-10.31
	Starts		2015 - 2023	2.61	6.95	-8.12	14.54		11.48
		Difference	2009 - 2015	3.69 1.74	-0.51	2.25 1.19	-0.95		21.16 -1.64
		CD							
	Housing Affordability	GR	2015 - 2022	4.75	4.24	-1.24	7.53	6.63	4.53
		Difference		3.01	4.75	-2.43	8.48	7.54	6.16
	Access to	GR	2009 – 2015	-0.30	-0.37	0.21	-0.32	-0.79	-0.24
O1'' 6	Family Physician	OK	2015 - 2022	0.47	-1.02	-1.04	-2.20	-0.54 6.67 3.26 -3.41 0.86 -2.14 -3.02 5.49 1.53 -2.63 10.61 7.08 -3.53 -3.32 -2.85 0.47 0.15 -0.84 -0.98 -0.57 7.72 8.72 -0.91 6.63 7.54	-0.24
Quality of Life	=, 5.44411	Difference		0.77	-0.65	-1.25	-1.89	0.21	0.00
		Dinerence		U.//	-0.03	-1.45	-1.07	0.21	0.00

	GR	2009 - 2015	-0.35	-1.68	-2.84	1.03	-2.19	-0.69
Poverty Rate	GK	2015 - 2022	-5.31	-4.35	-3.96	-6.51	-3.49	-5.50
	Difference		-4.96	-2.67	-1.12	-7.54	-1.30	-4.81
Life	GR	2008 - 2015	0.28	-0.24	-0.40	0.05	0.00	-0.50
Satisfaction		2015 - 2022	-0.95	-0.94	-0.63	-1.61	-1.12	-0.71
	Difference		-1.23	-0.70	-0.22	-1.65	-1.12	-0.22
Community Belonging	GR	2008 - 2015	0.65	0.14	-0.39	0.32	0.59	-0.08
		2015 - 2022	-0.75	-0.95	-0.85	-1.79	-1.44	-0.20
	Difference		-1.40	-1.09	-0.46	-2.10	-2.04	-0.12

Note: A negative change in the rate of change of the variables Median Age, the Gini Coefficient, and Proportion of NEET between the two periods is indicative of positive momentum. For all other variables, positive momentum is associated with a positive change.

Appendix Table 3: Indicators in Atlantic Canada as a Proportion of National Average, (Canada=100)

		Year	Atlantic Canada	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswid
		2000	6.02	1.51	0.33	2.27	1.92
	Real GDP *	2008	6.21	1.85	0.31	2.18	1.87
	(Share of National	2015	5.62	1.59	0.31	2.04	1.69
	Total)	2021	5.52	1.47	0.34	2.06	1.66
	(%)	2022	5.38	1.39	0.34	2.04	1.62
		2000	78.7	111.3	83.8	101.7	105.2
	Real GDP	2008	88.5	135.7	62.7	102.7	107.8
	per Capita	2015	84.8	126.9	70.9	101.7	102.2
	(%)	2021	125.8	73.0	100.9	101.4	125.8
	(/0)	2022	82.8	124.0	74.5	101.6	99.7
		2000	79.5	86.6	62.4	58.0	104.4
	Real Exports	2008	105.6	156.2	72.1	67.4	125.2
	per Capita (%)	2015	87.2	100.1	77.5	57.9	116.2
	per Capita (%)	2021	85.1	106.1	75.3	55.6	110.3
		2022	80.4	100.9	76.1	56.3	98.1
		2000	102.3	101.6	100.8	103.0	102.2
	Median Age	2008	106.8	107.4	105.1	106.9	106.6
	(%)	2015	110.4	111.1	107.9	110.1	110.8
	(70)	2022	110.4	116.6	101.7	107.8	111.5
		2023	110.1	118.2	103.2	107.9	111.8
		2000	7.65	1.72	0.44	3.04	2.45
	Population* (Share	2008	7.02	1.54	0.42	2.81	2.25
	of National Total)	2015	6.63	1.48	0.40	2.62	2.13
	(%)	2022	6.49	1.35	0.44	2.62	2.09
		2023	6.50	1.34	0.43	2.64	2.08
		2000/2001	16.8	10.2	16.8	22.7	14.2
TT	Immigration as	2008 / 2009	38.7	15.1	168.3	35.4	34.8
Human	share of population	2015 / 2016	62.2	29.7	154.0	64.2	64.9
Capital	(%)	2021 / 2022	89.6	42.4	161.7	108.1	82.4
		2022/2023	104.3	84.3	151.6	100.2	112.7
		2012 2014	63.5 59.5	58.4 54.6	29.7 33.2	77.6 73.9	56.0 50.1
	Imm:	2014 2016(5yr)					
	Immigrant		65.5	55.1	36.9	74.8	66.8
	Retention Rate (%)	2016(1yr)	76.2	62.3	68.2 70.5	82.6	79.4
		2019 2020	79.0 81.2	68.8 72.3	70.5 66.5	82.6 87.4	83.2 82.3
		2001	142.2	184.6	130.8	123.1	138.5
		2008	129.0	158.3	125.0	116.7	125.0
	NEET (%)	2015	115.2	130.8	115.4	100.0	123.1
	\ \ \ \ \ \	2022	126.1	154.5	90.9	109.1	136.4
	1	2023	126.4	127.3	136.4	100.0	100.0

	Proportion of Population (15+) with Tertiary Education	2000 2008 2015 2022	86.2 86.8 89.0 95.8	65.0 73.5 74.6 92.1		90.0 91.8 96.4 103.2	92.5 87.8 94.6 96.8	92.5 93.9 90.9 95.2
	(%)	2023	97.2	90.5		103.2	98.4	95.2
Labour Market Performance	Employment Rate (15-64) (%)	2000 2008 2015 2022 2023	88.5 92.4 94.5 95.0 95.3	93.8 96.4 98.0 98.6 99.4		96.9 97.6 100.0 98.2 99.2	92.5 94.7 95.7 96.8 96.6	91.5 95.4 95.4 95.9 96.7
	Employment Income for Economic families (EF) and persons not in an EF (2022 dollars) (%)	2001 2008 2015 2021 2022	82.1 81.7 84.6 84.3 82.1	76.6 78.2 107.4 86.8 88.8		72.7 80.9 74.5 87.2 78.9	83.8 83.2 81.8 83.4 81.0	86.0 82.0 83.7 83.5 81.2
	Labour Productivity (%)	2000 2008 2015 2022 2023	87.5 99.4 86.6 86.8 84.3	131.6 181.0 136.2 126.7 119.4	65.6 66.1 64.6 70.7 68.5	74.5 71.6 70.9 73.8 73.9	78.1 79.2 74.7 76.0 75.1	_
	Labour Force Participation of Women with Children under Six (%)	2000 2008 2015 2022 2023	100.9 106.3 107.7 104.3 101.6	118.2 112.3 114.5 103.9 108.4	118.2 112.3 114.0 103.9 108.4	98.1 106.0 107.7 102.5 100.1	103.0 107.8 108.4 103.9 100.8	_
Innovation	BERD per Capita (%)	2000 2008 2015 2020 2021	13.9 28.3 33.0 35.2 33.6	9.4 35.1 43.7 55.3 50.3	9.1 21.6 30.3 28.1 28.1	17.8 22.4 35.0 30.6 28.3	13.2 32.4 23.6 29.0 30.3	-
and Investment	Non-Residential Investment per Capita (%)	2000 2008 2015 2021 2022	79.5 73.9 100.2 74.4 70.9	106.6 98.2 270.2 154.4 141.9	50.6 57.2 36.4 56.6 54.3	69.6 50.4 52.3 46.5 47.6	78.0 89.7 53.2 60.4 57.8	_

		2000	155.8	580.7	0.0	82.45	43.96
	Non-Emitting	2008	145.7	580.2	7.3	9.6	44.4
	Energy	2015	149.9	536.0	29.8	13.9	71.9
	Production per	2013	155.7	586.1	27.5	15.6	74.8
	Capita (%)	2021	150.4	577.9	21.6	15.0	70.4
		2022	130.4	311.9	21.0	13.0	70.4
	Investment in	2000	90.53	194.43	0.00	2.51	1.08
	Renewable	2008	67.21	49.44	63.80	54.05	96.51
	Energy per Capita	2015	361.07	1476.86	0.00	63.04	21.13
	(%)	2022	66.11	52.43	9.89	71.75	79.70
	(70)	2023	66.00	52.05	9.31	71.30	80.10
		2000	02.0	71.0	50.0	06.5	110.7
	Total Tonnes of	2000	93.8	71.0	58.9	96.5	112.7
	GHG Emissions	2008	96.6	89.6	57.5	97.9	107.0
	per Capita	2015	86.6	98.0	51.2	84.5	87.9
	(%)	2021	81.3	87.6	55.1	80.6	83.4
	` '	2022	81.4	89.1	52.7	79.3	84.8
		2000	93.1	95.3	89.9	93.1	91.8
	Gini Coefficient	2008	92.0	95.9	83.8	93.6	88.9
	(adjusted after-	2015	94.0	100.0	89.8	94.6	86.9
	tax income)	2021	93.1	97.9	87.5	91.7	92.4
	(%)	2022	92.7	94.3	84.7	93.3	91.7
		2000	83.4	55.9	105.3	96.0	83.0
	Housing Starts	2008	82.6	100.4	80.8	67.0	90.2
	per Capita	2015	62.3	58.7	70.5	74.6	48.0
	(%)	2022	77.0	39.0	114.8	83.3	85.7
		2023	88.5	30.3	109.4	112.9	90.9
Standard of Living							
Living		2005	67.4	71.1	62.3	68.5	64.2
	Housing	2005	62.7	65.1	55.1	65.4	58.7
	Affordability	2008	53.6	62.7	45.6	54.3	46.4
	(%)	2013	48.6	42.7	53.5	57.5	40.4
	(,0)	2022	51.8	41.5	54.8	61.6	45.7
		2001	105.6	98.3	106.7	107.6	107.9
	Physician Access	2009	107.7	102.7	106.7	109.8	108.7
	(%)	2015	107.3	105.9	106.6	106.6	109.1
	(70)	2021	102.1	102.3	94.2	100.9	105.0
		2022	96.6	95.2	88.3	99.1	103.8
		2002	141.8	151.4	122 5	140.3	133.2
					133.5		
	Poverty Rate	2008	119.0	107.0	98.4	132.0	114.4
	(%)	2015 2021	108.3	89.7 100.5	108.3	115.9	111.7
		2U2.1	105.4	109.5	100.0	116.2	90.5
		2022	116.2	99.0	99.0	132.3	110.1

Overall	Life Satisfaction: Answered satisfied or very satisfied (%)	2003 2008 2015 2021 2022	101.6 101.7 98.0 100.1 98.0	102.9 102.2 97.4 99.9 99.7	103.3 102.7 101.1 101.0 96.4	101.5 101.0 99.0 100.2 97.8	100.4 102.0 96.5 100.0 98.2
Satisfaction	Community Belonging: Answered somewhat strong or very strong (%)	2003 2008 2015 2021 2022	115.0 114.7 110.8 111.1 109.2	125.0 125.1 116.3 115.8 115.5	115.3 116.8 114.1 112.4 106.1	111.0 112.8 112.4 109.1 107.0	113.2 109.7 104.3 110.4 108.4

Note: * For Real GDP and Population, the shares of provinces are calculated as a share of the total national estimates

Appendix Table 4: Growth Rates of Indicators, 2008-2015, 2015-2022/23 and Change between Periods for Non-Atlantic Provinces

		Growth Rate (GR) or Absolute Difference (AD)	Period	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
		GR	2008 - 2015	1.14	1.40	1.98	1.94	2.42	1.95
	Real GDP	GK	2015 - 2022	2.03	2.10	1.16	0.64	0.60	2.89
		Difference		0.89	0.70	-0.83	-1.30	-1.82	0.93
		CD	2008 - 2015	0.39	0.51	0.88	0.53	0.36	0.60
Macro- economy	Real GDP per capita	GR	2015 - 2022	1.13	0.69	-0.09	-0.28	-0.71	1.32
cconomy	Cupitu	Difference		0.74	0.19	-0.97	-0.81	-1.07	0.72
		GP.	2008 - 2015	0.82	1.58	1.03	2.30	3.51	2.61
	Real Exports	GR	2015 - 2022	0.73	0.96	0.04	-0.79	2.14	1.87
		Difference		-0.09	-0.62	-0.99	-3.09	Alberta Columb 2.42	-0.73
-			2008 - 2015	0.74	0.89	1.09	1.39	2.05	1.35
	Population	GR	2015 - 2023	1.03	1.64	1.49	0.95	1.57	1.82
		Difference		0.29	0.75	0.40	-0.44	-0.48	0.48
Human			2008 - 2015	0.41	0.61	-0.04	-0.27	0.20	0.59
Capital	Median Age	GR	2015 - 2023	0.12	-0.22	-0.07	0.40	0.68	-0.33
		Difference		-0.29	-0.83	-0.03	0.66	0.48	-0.92
	Immigration	GR	2009 - 2016	2.52	1.91	4.30	14.35	12.63	0.29

	ı	1	1			_				
		Difference	2016 - 2023							6.29
	Cabour Productivity Difference Diffe									
		GR								0.14
	Retention	Difference								0.08
	Dan and in a	GR GR	2008 - 2015							
			2015 - 2023	-4.49	-3.23	0.00	-1.00	1.0)1	-2.97
	Proportion of NEET Proportion of Population (15+) with Tertiary Education Employment Rate (15-64) Employment Income Labour Productivity Labour Force Participation of Women	Difference		-3.44	-4.38	-1.25	-6.39	-1.0	63	-7.89
			2008 - 2015	1.80	1.73	1.84	2.64	1.8	30	2.32
		GR	2015 - 2023	1.62	1.53	2.09	2.71	1.6	52	1.95
	Tertiary	Difference		-0.18	-0.20	0.25	0.07	-0.	18	-0.37
			2008 - 2015	0.16	-0.23	-0.35	-0.25	-0	51	-0.28
		L	2015 - 2023	0.74	0.55	0.28	0.13	0.2	25	0.59
	Employmer Income Labour Market Performance Labour			0.59	0.78	0.64	0.38	0.7	76	0.87
			-0.32 5.56 1.36 -6.25 -13.53 6.00	-1.26						
	1 2	GR		1.53	0.36	-0.31	-1.55	-1.	19	1.52
Labour	Income	Difference	2013 2022		1.46	0.11	-3.83	-1.5	98	2.78
Market		Difference	2008 - 2015							1.27
Performance	Labour	GR								
	Productivity		2013 - 2023							
	Labour Force		2000 2015						2.64 1.01 -1.63 1.80 1.62 -0.18 -0.51 0.25 0.76 0.79 -1.19 -1.98 1.73 -0.58 -2.32 -0.04 1.63 1.68 2.10 2.11 2.54 10.30 0.43 8.19 0.13 -1.01 -4.74 2.68 -4.87 3.69 11.02 1.67 7.95 -0.30 -3.07 -1.96 21.98 3.61 31.65 9.83	
			2015 - 2023						1.31 2.64 1.01 -1.63 1.80 1.62 -0.18 -0.51 0.25 0.76 0.79 -1.19 -1.98 1.73 -0.58 -2.32 -0.04 1.63 1.68 1.63 1.68 0 2.11 4 10.30 3 8.19 3 -1.01 74 2.68 87 3.69 02 1.67 5 -0.30 07 -1.96 08 3.61 65 9.83 7 6.22 78 -2.01 23 -0.82	
		Difference		-0.26	1.00	-0.49	0.28	1.6	08	0.96
			2008 - 2015	0.91	0.13	7.40	13.12	2.10	2.11	_
		GR	2015 - 2021	3.66	7.60	5.00	-1.83	2.54	10.30	
	Spending	Difference		2.75	7.47	-2.41	-14.95	0.43	8.19	=
			2008 - 2015	-1.01	2.38	4.66	6.17	0.13	-1.01	_
		GR		2.68	0.95	-6.10	-5.66	-4.74	2.68	
	Investment	Difference		3.69	-1.43	-10.76	-11.83	-4.87	3.69	=
-			2008 - 2015	0.64	1.43	0.27	-1.83	11.02	1.67	_
Innovation and		GR		0.88	-0.51	0.79	1.77	7.95	-0.30	
investment	Energy	Difference		0.24	-1.94	0.52	3.61	-3.07	-1.96	
		CD	2008 - 2015	1.67	-3.11	18.96	19.63	21.98	3.61	_
		GK	2015 - 2023	1.32	29.00	-7.53	-17.29	31.65	9.83	
		Difference		-0.34	32.11	-26.49	-36.92	9.67	6.22	_
		GR	2008 - 2015	-1.81	-3.02	-1.36	-0.23	-0.78	-2.01	_
	Gas Emissions		2015 - 2022	-0.54	-2.00	-0.75	-2.73	-2.23	-0.82	_
	Limosions	Difference		1.27	1.01	0.61	-2.50	-1.45	1.27	_

I		I						
G: ·	GR	2008 - 2015	-0.44	-0.09	0.32	-0.24	-0.28	0.59
		2015 - 2022	-0.72	-0.18	-1.01	-1.03	-0.73	-0.96
Coefficient	Difference		-0.27	-0.09	-1.32	-0.80	-0.44	-1.55
	C.D.	2008 - 2015	-3.28	-0.96	-0.09	-3.95	3.57	-1.24
_	GR	2015 - 2023	0.32	3.06	3.25	-1.35	-0.43	6.10
Starts	Difference		3.60	4.03	3.34	2.60	-4.00	7.34
		2009 - 2015						
	GR		0.80	3.04	2.35	-0.21	-1.19	2.58
	OK .	2015 - 2022	3.39	6.41	1.87	-0.51	0.57	3.39
	Difference		2.59	3.37	-0.48	-0.30	-0.73 -0.44 3.57 -0.43 -4.00 -1.19 0.57 1.76 -0.10 1.49 1.60 -1.89 0.45 2.34 0.26 -0.97 -1.23	0.80
		2009 – 2015	-0.23	-0.26	-1.02	-0.43	-0.10	-0.45
Access to	GR							
		2015 - 2022	1.24	0.10	1.21	0.69	1.49	-0.07
,								
	Difference		1.47	0.35	2.23	1.12	1.60	0.38
	G.D.	2009 - 2015	-0.52	-0.11	1.24	-2.39	-1.89	0.66
Poverty Rate	GK	2015 - 2022	-9.72	-4.55	-2.87	-1.34	0.45	-6.52
	Difference		-9.20	-4.44	-4.11	1.05	2.34	-7.18
I :C-	GR	2008 - 2015						0.42
Satisfaction	010	2015 - 2022	-0.46	-1.14	-1.00	-0.84	-0.97	-1.23
	Difference		-0.62	-1.58	-1.14	-0.93	-1.23	-1.65
.	GR	2008 - 2015	0.12	0.65	0.72	0.56	1.96	0.79
Community	OK	2015 - 2022	0.41	-1.05	-0.77	-0.63	-0.98	-1.23
Belonging								
	Family Physician Poverty Rate Life	Gini Coefficient Difference GR Difference Housing Affordability Difference Access to Family Physician Difference GR Difference GR Difference GR Difference GR Difference	Coefficient Difference 2008 - 2015 2015 - 2023	Coefficient Difference 2015 - 2022 -0.72	Coefficient Coefficient Coefficient Difference -0.27 -0.09	Coefficient Coefficient Difference 2015 - 2022 -0.72 -0.18 -1.01	Gini Coefficient 2015 - 2022 -0.72 -0.18 -1.01 -1.03 Housing Starts GR 2008 - 2015 -3.28 -0.96 -0.09 -3.95 Difference 3.60 4.03 3.25 -1.35 Housing Affordability GR 2009 - 2015 0.80 3.04 2.35 -0.21 Difference 2.59 3.37 -0.48 -0.51 Access to Family Physician GR 2009 - 2015 -0.23 -0.26 -1.02 -0.43 Poverty Rate Difference 1.47 0.35 2.23 1.12 Poverty Rate GR 2015 - 2022 -9.72 -4.55 -2.87 -1.34 Difference -9.20 -4.44 -4.11 1.05 Life Satisfaction GR 2008 - 2015 0.15 0.44 0.14 0.09 Difference -0.62 -1.58 -1.14 -0.93	Coefficient

^{*}Note: a negative change in the rate of change of the variables Median Age, the Gini Coefficient, GHG Emissions, Housing Affordability, Poverty rate and Proportion of NEET between the two periods is indicative of positive momentum. For all other variables, positive momentum is associated with a positive change **Indicators in blue exhibit momentum