

# The Shorter Working Life

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A Framework for Reducing Required Lifetime Labor

Scott Jellen  
April 2026  
Version 1.0

Jellen Protocol Lab



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## **Abstract**

The modern work lifecycle is built on assumptions of sustained, near-continuous labor participation across the majority of adult life. These assumptions were coherent under conditions of shorter lifespans, lower productivity, and persistent labor demand. Those conditions have shifted.

Productivity gains and changing labor structures have reduced the amount of labor required in specific sectors while longer lifespans have increased total lifetime capacity. Recent advances in automation and artificial intelligence may accelerate these shifts by increasing the speed and scale of labor-demand change in certain sectors. Despite this, the expectation of extended full-time participation remains intact, creating a growing misalignment between available human time and required economic labor.

As these conditions persist, the system must adjust through some combination of underemployment, income redistribution, or a reduction in required lifetime labor. This paper addresses the third path.

It defines a framework for reducing the duration of mandatory full-time work and reallocating labor across the lifecycle, using existing institutional mechanisms as the basis for transition.

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## 1. The Problem

The modern work lifecycle no longer aligns with current economic and demographic conditions.

In its prevailing form, the model assumes sustained, near-full participation in full-time labor across the majority of adult life, followed by a relatively brief retirement phase. This structure was historically coherent. It reflected shorter lifespans, lower productivity per worker, and a persistent need for continuous labor input.

Those conditions have changed.

Lifespans have extended, increasing total lifetime capacity. At the same time, productivity gains can reduce the amount of labor required in specific sectors to produce equivalent or greater levels of output. Labor demand has become more uneven, with displacement occurring in some areas without corresponding absorption in others.

Despite these shifts, the underlying lifecycle model remains largely unchanged.

The result is a growing misalignment between available human time and required economic labor. Individuals are expected to maintain long durations of full-time participation even where marginal labor demand is declining or unstable. At the same time, the period of life spent outside the labor force remains compressed, often occurring later in life when health, flexibility, and optionality are more limited.

Current policy responses largely attempt to preserve the existing structure. Displaced labor is treated as a temporary condition to be corrected through retraining, reallocation, or job creation. These approaches assume that full reabsorption into the labor force remains both possible and necessary.

The question is not how to replace work with income, but how to reduce the portion of life that must be spent in work at all.

## 2. The Old Settlement

The structure of the modern work lifecycle emerged under a set of economic and demographic conditions that made extended participation in the labor force both necessary and efficient.

Lifespans were shorter, limiting the total duration of post-work life. A smaller portion of the population reached advanced age, and those who did typically experienced a more constrained period of retirement. Under these conditions, concentrating the majority of adult life within the labor force aligned with both individual and system-level requirements.

At the same time, productivity per worker was lower. Economic output depended more directly on sustained human labor input across a wide range of sectors. Maintaining high levels of labor participation over extended periods was essential to support production, growth, and basic system stability.

Labor demand was also more uniform. While cycles of expansion and contraction existed, the broader structure of the economy relied on continuous absorption of workers. The expectation of long-term, stable employment within a single career or industry was both common and structurally supported.

Within this context, the prevailing lifecycle model—extended education, followed by decades of full-time work, followed by retirement—represented a coherent allocation of time. It maximized productive capacity during peak working years while deferring non-work to a relatively short terminal phase.

Public policy and institutional systems evolved to reinforce this structure. Retirement programs were designed to support individuals at the end of their working lives, not to enable early or flexible exit. Eligibility thresholds, contribution models, and benefit structures all assumed prolonged participation in the labor force as the baseline condition.

This settlement was not arbitrary. It reflected the constraints and requirements of the system at the time.

As long as those conditions held, the model remained stable.

### **3. The New Conditions**

The conditions that supported the traditional work lifecycle have shifted in ways that weaken its underlying assumptions.

Lifespans have extended, increasing the total duration of adult life. A larger share of the population now spends more years beyond traditional working age, expanding the potential duration of post-work life.

At the same time, productivity gains have reduced the amount of labor required in specific sectors. While these gains are not uniform across the economy, they have lowered the need for direct human labor in many areas.

Recent advances in automation and artificial intelligence may intensify this shift by extending labor displacement beyond physical and routine tasks into administrative, analytical, and other cognitive domains, increasing the possibility that large categories of work may be reduced faster than new roles can be created or absorbed.

Labor demand has become more uneven as a result. Some sectors continue to require significant human input, particularly those involving physical presence or interpersonal interaction. Others experience structural displacement, where roles are reduced or eliminated without direct replacement.

Not all labor displaced by productivity gains is reabsorbed into new forms of work. Over long time horizons, new forms of labor may emerge. In practice, however, reabsorption is uneven, delayed, and often fails to match the timing, location, or structure of displaced work.

Efforts to maintain full labor utilization through artificial job creation or forced reallocation preserve the appearance of employment rather than aligning labor with actual demand.

Despite these shifts, the prevailing expectation of extended, near-continuous participation in full-time work remains intact.

The result is a widening gap between available human time and required economic labor.

The assumption of sustained full labor utilization becomes increasingly difficult to maintain under these conditions.

These conditions do not represent a temporary disruption. They reflect a structural change in how labor is required and distributed.

The longer this misalignment persists, the more the system relies on distortions to maintain the appearance of full labor utilization.

## 4. The Core Framework

The preceding conditions point toward a structural adjustment in how human time is allocated across a lifetime.

If less labor is required to sustain economic output, and more total life years are available, the system must adjust either by redistributing income or by reducing required labor. This framework addresses the latter.

The Shorter Working Life proposes a shift in the baseline model.

Rather than assuming extended, near-continuous participation in full-time labor across most of adult life, the framework centers on a reduced period of required lifetime labor. Full-time participation is concentrated into a shorter portion of life, while the duration of post-work life expands.

This is not a reduction in activity, but a reallocation of when and how required labor is performed across a lifetime.

As these conditions persist, the system cannot remain static. It must adjust through some combination of:

- sustained underemployment and labor underutilization
- expanded income redistribution detached from labor demand
- or a reduction in required lifetime labor

The first two paths preserve the existing structure at increasing cost. The third adjusts the structure itself.

The framework does not eliminate work or contribution. It reduces the duration for which participation in full-time labor is structurally required. It distinguishes between mandatory economic participation and other forms of activity that may continue beyond the primary working phase.

The objective is not to define a fixed endpoint, but to establish a directional change: a sustained reduction in required lifetime labor in response to evolving economic conditions.

## 5. Transition Mechanism

This framework differs from income-based approaches by adjusting the duration of required labor rather than sustaining income independent of labor participation.

A transition toward a shorter working life requires an institutional pathway that is both legible and adaptable within existing systems.

The most direct and established mechanism is the structure of retirement.

Retirement systems already define the boundary between required labor participation and non-participation. They provide a framework for income replacement, eligibility thresholds, and lifecycle transition.

Retirement is not a new construct introduced by this framework. It is an existing institutional mechanism through which societies already manage the transition out of required labor. The proposal is not to invent a new system, but to extend and adapt one that is already widely accepted.

Within this framework, the transition is not defined by a fixed target age, but by a gradual advancement and expansion of eligibility.

This includes:

- earlier access to retirement benefits
- expansion of partial and phased retirement
- more flexible transitions out of full-time labor

Retirement functions as a system-level absorber of reduced labor demand, converting productivity gains into time rather than solely into output.

This transition does not rely on a single reform, but on a sequence of incremental adjustments within existing systems.

In effect, the framework converts productivity gains and changing labor demand into time by shortening the duration of mandatory full-time work rather than preserving the existing model through distortion or detached redistribution.

## **6. Constraints**

A transition toward a shorter working life is subject to clear structural constraints.

The first constraint is fiscal sustainability. Systems that support individuals outside of full-time labor depend on a balance between contributors and beneficiaries. The framework is conditional on productivity gains sufficient to maintain or increase total economic output while supporting a reduced working population.

The second constraint is demographic balance. The ratio of working-age individuals to those outside the labor force influences the viability of any transition. The pace and structure of adjustment will vary across societies with different age distributions and dependency burdens.

The third constraint is uneven labor demand across sectors. Some areas of the economy continue to require significant human input and cannot reduce participation at the same pace as others. A shorter working life cannot unfold uniformly where labor remains structurally scarce.

The fourth constraint is political feasibility. Adjustments to retirement systems involve intergenerational tradeoffs and must maintain perceived fairness. Early transition cohorts may view unequal eligibility, contribution burdens, or pacing as politically and morally contested.

These constraints define the boundaries of feasibility, not the direction of change.

## **7. Direction of Travel**

The transition toward a shorter working life does not define a fixed endpoint. It establishes a direction.

As productivity improves and labor demand evolves, the baseline expectation for lifetime labor participation adjusts.

Over time, the period of mandatory full-time work contracts, while the duration of life spent outside that requirement expands.

The direction is not toward the elimination of work, but toward a reduction in the duration for which it is required.

Under this model, the lifecycle shifts from one defined by extended, continuous labor participation to one in which required labor is progressively reduced in response to changing economic conditions.

The current model assumes that labor must fill life. This framework assumes that labor should be shaped by what is required.

## **Conclusion**

The modern work lifecycle was built for conditions that no longer fully hold. Longer lifespans, uneven labor demand, and rising productivity have weakened the assumption that full-time labor must structure the majority of adult life.

As these conditions persist, the question is not whether the system will adjust, but how. The existing model can be preserved only through increasing distortion, whether through underemployment, income redistribution detached from labor demand, or forced reallocation. A shorter working life offers a different response: reducing the duration of required labor itself.

This framework does not eliminate work. It redefines the portion of life for which full-time labor is structurally necessary. In that sense, it is not a departure from the logic of modern economic life, but an adaptation to its changing conditions.

## **About the Author**

Scott Jellen is an independent researcher focused on system design, institutional structure, and long-range economic frameworks. His work explores how infrastructure, incentives, and policy interact to shape complex systems.

## **About Jellen Protocol Lab**

Jellen Protocol Lab is an independent research initiative focused on designing and articulating system-level frameworks across public infrastructure, economic coordination, and institutional design.

## **Version Notes**

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The modern work lifecycle is built on assumptions of sustained, near-continuous labor participation across the majority of adult life. These assumptions were coherent under conditions of shorter lifespans, lower productivity, and persistent labor demand. Those conditions have shifted. Productivity gains and changing labor structures have reduced the amount of labor required in specific sectors while longer lifespans have increased total lifetime capacity. As these conditions persist, the system must adjust through some combination of underemployment, income redistribution, or a reduction in required lifetime labor. This paper defines a framework for reducing the duration of mandatory full-time work and reallocating labor across the lifecycle, using existing institutional mechanisms as the basis for transition.