

THE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA (Set up by an Act of Parliament)

PUNE BRANCH OF WIRC OF ICAI

Issue No. 9 NEWSLETTER September 2022

(Subscribers copy not for sale)

Due Date Calender for the Month September 2022

SR. NO.	DATE	TAXATION UPDATES
1.	7th September, 2022	TDS/TCS Payment August 22
2.	10th September, 2022	GSTR 7/8 August 22
3.	11th September, 2022	GSTR 1 August 22 Monthly
4.	13th September, 2022	IFF August 22 QRMP GSTR 6 August 22
5.	15th September, 2022	Advance Tax 2nd Inst AY 23-24 PF/ESIC Payment August 22
6.	20th September, 2022	GSTR 3B, GSTR 5/5A August 22 Monthly
7.	30th September, 2022	Tax Audit AY 22-23 DIR - 3 KYC

Heartiest Congratulations



CA. Sampada Suresh Mehta from Pune For appointed as a Personal Secretary of Droupadi Murmu, Hon. President of India

CA. (Dr.) Rewati Paithankar from Pune For elected as a Chairperson of The Bhagini Nivedita Sahakari Bank Ltd., Pune





Chairman's Communique

Dear Professional Colleagues,

September is usually the most busiest month for Chartered Accountants. Most of the CAs in practice are trying to finish off Company Audits and Tax Audits as 30th September is the last date for submissions.

We have numerous events during the last month like Celebration on the occasion of Independence Day under 75th Year of Azadi Ka Amrit Mahotsav (AKAM), Interactive virtual Meeting with Chairman W.r.t. ICAI MSME Yatra & Setu with Branch Managing Committee Members.



CA. Kashinath Pathare Chairman Pune Branch of WIRC of ICAI

Also, the branch organised ICAI MSME Setu and ICAI MSME Yatra jointly with Pimpri Chinchwad Branch It aimed at providing MSME Udyam Registration & Solutions to the Problems of MSME at their doorstep and a vehicle stopover movement to showcase MSME ecosystem.

The branch also arranged various Career counseling sessions in schools and colleges for creating awareness in students.

For the ICAI students, arranged Helpdesk for Exam Form Related Issues.We organized various programmes in hybrid mode like "Treasury & Forex Management", "International Taxation", "Practical Aspects of Statutory Audit - Documentation to Reporting Obligations"

We have organized Ganesh Festival, Talent Search for students, Teachers' Day Celebration "गौरव गुरू जनांचा!!" (Felicitation of CA's who is in Teaching Profession) in the month of September.

Do not forget to share your ideas, views and thoughts on any and every matter related to the branch.

Thanking you.

With warm regards,

CA. Kashinath Pathare, Chairman Pune Branch of WIRC of ICAI

Retirement Planning — An Introduction to the Perpetual Portfolio Model

Contributed by :- CA. K. T. Ganapathy Email :- <u>ktg@ktganapathy.com</u>

1. Introduction and background:

It is commonplace nowadays to find queries on creation and review of investment portfolios on financial websites and media. Most advice is target-oriented — saving for a vehicle, a home, a child's education, future marriage, and finally, for the investor's retirement.

The guidance is generally to:

- · Calculate savings towards the identified targets
- · Use a recommended asset allocation between equity and debt, and

 \cdot Move the allocated funds from equity to debt at a particular period prior to the target date.

In addition, the guidance template will include:

- · Creation of an emergency fund of X months' worth of expenses, and
- Counsel on acquiring both health and term life insurance.

The mathematical calculation to this exercise is based on the following factors:

- · Current expenditure
- Years to target
- Inflation rate
- · Returns from debt

Returns from equity

And finally, in the case of a retirement target:

Years of portfolio sustenance (for X years or till death of the investor and/or dependants)

Asset allocation between debt and equity is either based on a questionnaire or on a thumb rule such as investor age or alternate metric. These methods are supposed to quantify the risk profile of the investor.

1 (a). Uniqueness of the Retirement Target:

While this methodology serves some purpose, it fails to consider the fundamental distinction between retirement and other financial targets. The *fact* of retirement is an event like other life targets, but retirement is a *process*. Retirement is a process for the duration of the investor's retired life and the lives of his dependants. There is the very real possibility of Longevity Risk (the risk of outliving one's retirement portfolio) to be factored in.

Consider the investor's earning life a satellite launch — his savings during his working life boosts his upward financial trajectory. After sacrificing some momentum towards other financial targets, the remainder **must** be sufficient to stabilize his orbit for the rest of his life. Too little momentum, or momentum mismanaged, can be disastrous. Retirement is not the event of reaching the peak; it is the orbital path that follows.

Retirement is also fundamentally distinct in another way. During the investor's working life, the consequences of a missed target are not always disastrous. A budget can be reduced, another target can be eliminated, or the working life extended. A **retirement** target cannot be eliminated, and once retired, with a fixed retirement corpus, a missed retirement target can be ruinous.

Finally, a retiree's risk appetite is an extremely subjective element to quantify. It is contingent on a variety of factors and can even vary for the same person over time. A more retiree-friendly and relatable method than the usual thumb rule / questionnaire methods of asset allocation is required.

1 (b). Volatility vs. Risk:

Volatility and Risk are often understood to be equivalent, especially when applied to equity, and equity's downside volatility. Equity's upside volatility is always considered positive. This paper refers to volatility as downside volatility, unless otherwise expressly stated.

Consider equity purchased for 100, which is now valued at 90. Equity is volatile as its price has decreased by 10%, but its holding risk remains unchanged. Any statistic that measures this difference in financial potential, no matter how sophisticated, is measuring volatility, not risk.



Equity risk arises not merely on account of a fall in price, but on the *simultaneous* necessity of realization at the low price. Equity risk must account for *both* limbs:

- The downside volatility of price change **AND**
- · The simultaneous necessity to realize the low downside price at a particular time point

In other words, volatility is a potential loss but does not create risk or actual loss until the potential loss is realized. Risk arises out of the possibility that the investor is **compelled** to sell at the low price, thus making a mere potential loss into a realized one.

<u>1 (c). Debt vs. Equity — Their Influence on Portfolio Capital:</u>

Essentially, most investments are of two types – those whose future value can be precisely calculated and those that cannot. These are referred to in this paper as Stable Return Investments (Debt) and Volatile Return Investments (Equity) respectively.

Stable Return Investments (Debt) are characterized by non-volatile and generally low returns, while Volatile Return Investments (Equity) are characterized by volatile and generally high returns.

A retiree would prefer to invest his limited capital only in Debt, but low returns, however "safe" and nonvolatile, can only be sufficient, provided the initial portfolio capital is large. The lower the portfolio return, the larger must be the initial portfolio capital. Only a few fortunate retirees can invest their portfolio capital entirely in Debt — most must deal with the volatility of Equity.

1 (d). Debt and Equity – A New Perspective:

Equity investments are made for generating superior returns and higher portfolio growth, but have the drawback of high volatility. Debt investments are made for providing greater portfolio stability, but have the drawback of low returns and decreased growth. Debt and Equity are the yin and yang of any investment portfolio.

If the retiree views portfolio risk as the **realization** of potential loss in the Equity elements of his portfolio, the Debt elements acquire their true significance as his safety net / drawdown protection. This safety net permits him to bear with Equity volatility in the pursuit of higher portfolio growth.

Portfolio Debt is then more understandable as X months' protection against Equity risk, rather than a rule of thumb metric or questionnaire. A retiree may find it comfortable to quantify a safety net in terms of say 72 or 96 months of living expenses. The financial advisor can also base this on the retiree's portfolio equity cycle – this is the methodology followed in the Perpetual Portfolio Model.

2. The Perpetual Portfolio Model (PPM):

The model is the design of a self-perpetuating retirement portfolio — the bird's eye view:



Figure 1: Overview of the PPM

The model in Figure 1 consists of a simple two bucket portfolio with two main elements:

 \cdot The Investment Unit (IU), consisting of equities / mutual funds (Volatile Investments), and

• The Buffer Unit (BU), consisting of debt instruments / bank deposits (Stable Investments). The BU bucket is further divided to include:

- The Withdrawal Unit (WU), and
- The Bank & Emergency Unit (B&E)

The overall construct results in a simple and basic four bucket portfolio schema as illustrated in Figure 1. Each component has a distinctive profile of objective, target, volatility and liquidity attribute and purpose within the PPM as illustrated above.

2 (a). The Debt Components – BU, WU and B&E:

The BU, WU, and B&E are intimately linked, and fund flows for living expenses are systematically planned and withdrawn between the three sub-components.

These components are computed from the following factors:

- The annual expected inflation
- The monthly withdrawal requirement for living expenses adjusted for inflation and, if required, calculated forward from the present requirement to the requirement as of the retirement date
- The target annual post-tax returns of the Debt component / sub-components
- The total safety net / drawdown protection required is specified in months. In the illustration below, it is broken up into the protection required for the B&E (months 1 6 of living expenses), WU (months 7 12 of living expenses), and BU (months 13 72 of living expenses). Thus, the B&E, WU and BU taken together will cover the retiree's living expenses (with inflation), for the full safety net of say, 72 months, or as may be required by the retiree / his financial advisor.

2 (b). The Equity component – IU:

The IU is a separate and distinct component of the PPM. It comes into play **only** when the underlying Equity value equals / exceeds the portfolio target of Inflation-adjusted return. Typically, fund flows from the IU are unplanned and depend on market forces.

The IU is computed from the following factors:

- The target annual post-tax returns of the Equity component
 - The monthly withdrawal requirement for living expenses (already quantified above)

such that the **planned** annual yield of both the Debt and Equity components of the portfolio **together** are sufficient to sustain the retiree's forward inflated annual withdrawal requirement of living expenses in perpetuity.

2 (c). The Mechanism of the PPM:

The following illustration will highlight the mechanism of the PPM:

- The annual expected inflation 5%
- Retirement date 10 years in the future
- \cdot The monthly withdrawal requirement of living expenses 50,000 at present, and adjusted for inflation 10 years to the future amounting to 81,114
- The target annual post-tax returns of the Debt components (not accounting for inflation) B&E 3.5%, WU 6.5%, and BU 7%
- The total safety net / drawdown protection required 72 months, allocated to B&E 6 months (months 1 – 6 of retired living expenses), WU 6 months (months 7 – 12 of retired living expenses) and BU the balance 60 months (months 13 – 72 of retired living expenses)
- The target annual post-tax returns of the Equity component (not accounting for inflation) 12%

These input factors resolve into the following PPM configuration:



Figure 2: Sample PPM Configuration

Mark in Fig 2	Time Period	Explanatory Notes to Figure 2 (Please refer arrows):
1	Initial	The calculated initial PPM Capital is 1,98,82,309
2	Initial	The PPM Debt to Equity asset allocation is 34.06% to 65.94%
3	Initial	The B&E allocation is 4,91,670, which is the 6 months' Year 1 forward inflated withdrawal requirement for months $1 - 6$ of living expenses
4	Initial	The Year 1 forward 12 months inflated withdrawal requirement of 9,95,481 of living expenses has been allocated to B&E (4,91,670) as above, with the balance of 5,03,811 to the WU for months 7 $-$ 12 of living expenses

5 Initial The 72 months' forward inflated withdrawal requirement of 67,71,175 is allocated to the B&E (4,91,670) and WU (5,03,811) as above, with the balance of 57,75,694 to the BU for months 13 – 72 of living expenses

The PPM sets up the initial investment portfolio so that the retiree is assured of **inflation adjusted** funds for living expenses at the beginning of each month, as already available in the B&E, WU, and BU. The B&E and WU as set up initially are meant to be entirely consumed by the retiree during the year and are replaced from the incomes generated (during the forward year).

Mark Time Explanatory Notes to Figure 2 (Please refer arrows): in Fig Period

- 2
- 6 Year 1 The PPM income realization for Year 1 at the assumed rates of return is 19,89,597. This income comprises of two elements: real returns of 10,22,241 and an inflation adjustment of 9,67,355. (Note that the income generated for the B&E, BU and WU are not a direct multiplication of Capital x Interest Rate because of the monthly withdrawals for living expenses).

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Year 1 The inflation adjustment of 9,67,355 (as in 6 above) is automatically divided into three parts of 23,014, 2,88,785 and 6,55,557 by the PPM.

The first part of 23,014 is added to the real income of 10,22,241 (in 6 above) to total 10,45,255 (in 8 below) for the initial capital of B&E and WU for the Year 2 Forward.

The second part of 2,88,785 is reinvested in the BU for the initial capital of Year 2 Forward to take care of the inflation that occurred during Year 1 (57,75,694 + 2,88,785 = 60,64,479).

Likewise, the third part of 6,55,557 is reinvested in the IU for the initial capital of Year 2 Forward to take care of the inflation that occurred during Year 1 (1,31,11,133 + 6,55,557 = 1,37,66,690).

- Year 2 The realized and withdrawable income of 10,45,255 generated in Year 1 is sufficient for the required Year 2 inflation adjusted living expenses. This is allocated to the Year 2 Forward B&E as 5,16,253 for months 13 – 18 of living expenses and WU as 5,29,002 for months 19 – 24 of living expenses during Year 2 (10,45,255 = 5,16,253 + 5,29,002). Note that the B&E and WU are meant to be entirely consumed.
- Year 2 As a result of 7 and 8 above, the initial capital of the PPM in the Year 2 Forward will be 2,08,76,424, with a B&E of 5,16,253, a WU of 5,29,002, a BU of 60,64,479 and an IU of 1,37,66,690.

The PPM income realization for Year 2 Forward at the assumed rates of return is 20,89,076. This income comprises of two elements: real returns of 10,73,353 and an inflation adjustment of 10,15,723.

The inflation adjustment of 10,15,723 is automatically divided into three parts of 24,165, 3,03,224 and 6,88,335 by the PPM.

The first part of 24,165 is added to the real income of 10,73,353 to total 10,97,518 for the initial capital of B&E and WU for the Year 3 Forward.

The second part of 3,03,224 is reinvested in the BU for the initial capital of Year 3 Forward to take care of the inflation that occurred during Year 2 (60,64,479 + 3,03,224 = 63,67,703).

Likewise, the third part of 6,88,335 is reinvested in the IU for the initial capital of Year 3 Forward to take care of the inflation that occurred during Year 2 (1,37,66,690 + 6,88,335 = 1,44,55,025).



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Mark	Time	Explanatory Notes to Figure 2 (Please refer arrows):
in Fig	Period	
2		

2

10 Year 3 As a result of 9 above, the initial capital of the PPM in the Year 3 Forward will be 2,19,20,245, with a B&E of 5,42,066, a WU o 5,55,452, a BU of 63,67,703 and an IU of 1,44,55,025.

The PPM income realization for Year 3 Forward at the assumed rate: of return is 21,93,530. This income comprises of two elements: rea returns of 11,27,021 and an inflation adjustment of 10,66,509.

The inflation adjustment of 10,66,509 is automatically divided into three parts of 25,373, 3,18,385 and 7,22,751 by the PPM.

The first part of 25,373 is added to the real income of 11,27,021 to total 11,52,394 for the initial capital of B&E and WU for the Year 4 Forward, to be consumed by the retiree.

The second part of 3,18,385 is reinvested in the BU for the initia capital of Year 4 Forward to take care of the inflation that occurred during Year 3 (63,67,703 + 3,18,385 = 66,86,088).

Likewise, the third part of 7,22,751 is reinvested in the IU for the initial capital of Year 4 Forward to take care of the inflation tha occurred during Year 3 (1,44,55,025 + 7,22,751 = 1,51,77,776).

11 Year 4 As a result of 10 above, the initial capital of the PPM in the Year 4 Forward will be 2,30,16,258, with a B&E of 5,69,169, a WU o 5,83,225, a BU of 66,86,088 and an IU of 1,51,77,776.

The PPM income realization for Year 4 Forward at the assumed rate: of return is 23,03,207. This income comprises of two elements: rea returns of 11,83,372 and an inflation adjustment of 11,19,835.

The inflation adjustment of 11,19,835 is automatically divided into three parts of 26,642, 3,34,304 and 7,58,889 by the PPM.

The first part of 26,642 is added to the real income of 11,83,372 to total 12,10,014 for the initial capital of B&E and WU for the Year ! Forward to be consumed by the retiree.

The second part of 3,34,304 is reinvested in the BU for the initia capital of Year 5 Forward to take care of the inflation that occurrec during Year 4 (66,86,088 + 3,34,304 = 70,20,392).

Likewise, the third part of 7,58,889 is reinvested in the IU for the initial capital of Year 5 Forward to take care of the inflation tha occurred during Year 4 (1,51,77,776 + 7,58,889 = 1,59,36,665).

This repetitive iteration results in the self-perpetuating attribute of the PPM.

3. The Equilibrium Withdrawal Rate (EWR):

The EWR, (sometimes called the Safe Withdrawal Rate or Four Percent Rule), is the rate at which withdrawals from a retirement portfolio avoid Longevity Risk (the risk of outliving the portfolio). This is a measure of prime importance in the management of a retirement portfolio and has so far only been estimated. The PPM automatically and accurately calculates the Equilibrium Withdrawal Rate (EWR),- 5.01%, marked 12 in Figure 2 above.



The PPM reveals a significant fact — the EWR is **independent** of the underlying capital size or withdrawal requirement. It is **entirely** determined by these four parameters:

- The annual expected inflation
- The target annual post-tax returns of the Debt component / sub-components
- The total safety net / drawdown protection required in terms of months
- The target annual post-tax returns of the Equity component

Taking the very same illustration as above but modifying the retirement date to 5 years in the future and a present monthly withdrawal requirement of 1,00,000, the required initial PPM capitalization would increase to 3,11,56,618, **but the EWR would remain 5.01%.** Only the initial portfolio capital size would vary – **not** the EWR.

The conclusion to be drawn is that only a variation in any one or more of the **four** critical parameters would affect the EWR, and along with a change in the withdrawal requirement, necessitate a recalculation of the PPM.

4. Evaluation of the PPM:

4 (a). Assumptions of the PPM

- Withdrawals for living expenses are made from the BU to the WU, from the WU to the B&E and from the B&E for the use of the retiree at the beginning of every month
- Compounding of calculated interest is ignored for the sake of simplicity all returns are accumulated separately till the end of each year and then reinvested (in any case a more conservative procedure)
- The effect of taxation is ignored
- · Inflation is calculated monthly

4 (b). Utility of the PPM

- \cdot As a benchmark of comparison for a retiree (or any investor) to measure his portfolio against
- As a retirement target for currently working individuals
- As a technique to evaluate portfolio Debt-Equity allocation decisions
- As a technique to evaluate EWR decisions

4 (c). Pros and Cons of the PPM

Pros:

- o Eliminates the element of Longevity Risk in a retirement portfolio
- o Eliminates the need for a rule of thumb Debt-Equity allocation
- o Encourages simple understanding and awareness of the necessity/purpose of Equity in a portfolio
- o Evaluates financial sustainability and EWR Cons:
- o Debt other than sovereign Debt, though not subject to volatility, is subject to Default Risk
- o The financial factors and assumptions of the PPM are subject to the same confidence levels as other existing financial models

5. Conclusion:

The self-sustaining Perpetual Portfolio Model (PPM) is a distinctive and useful concept. It eliminates traditional Longevity Risk assumptions, presents a more intuitive Debt-Equity allocation, and enables a straightforward calculation of the safe withdrawal rate.

However, as with all financial models, caution must be exercised in the assumptions input into the model and the consequent interpretation of the results.

Celebration on the occasion of Independence Day under 75th Year of Azadi Ka Amrit Mahotsav (AKAM)



Lighting of Premises of Branch



Flag Hoisting Ceremony

Rally by Walk

7th International Study Tour to Turkey





Conference

Participants

ICAI MSME Setu and ICAI MSME Yatra & Programme on "MSME"



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A vehicle stopover movement to showcase MSME ecosystem



CA. Santosh Doshi, Speaker



CA. Maheshwar Marathe, Speaker



Participants

Seminar on "International Taxation"







CA. Tarun Jain, Speaker



CA. Rahul Kumar, Speaker



CA. Sharad Shah, Speaker

CA. Sudin Sabnis, Speaker



CA. Narendra Joshi, Speaker CA. Krishna Zanwar, Speaker

Participants

Campus Placement - Orientation Programme for Newly Qualified Chartered Accountants



Inauguration



CA. Shashank Patki

Speaker

rs in im



Dr. N. S. Umrani **Chief Guest**









CA. Pushkar Sabne Speaker

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Speaker



CA. Medhavi Kurundwadkar Speaker



CA. Abhay Mate Speaker



CA. Sayali Kothari Speaker

CA. Shekhar Sane Speaker

5 Days GST Series











CA. Pritam Mahure, Speaker

CA. Jugal Doshi, Speaker

CA. Vivek Baj, Speaker

CA. Ravi Somani, Speaker

CA. Jignesh Kansara, Speaker

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CA. Jagdeesh Dhongde Keynote Speaker CA. Amit Doshi Speaker

Participants

Seminar on "Professional Opportunities in Import Export"



CA. Shailesh Rathi, Speaker

Participants

VCM on "Treasury & Forex Management"



CA. Pankaj Kumar Rathi, Speaker



CA. Maulik Shah, Speaker



Pune Branch of WIRC of ICAI

Plot No.8, Parshwanath Nagar, CST No. 333, Sr.No.573, Munjeri,Opp. Kale hospital, Near Mahavir Electronics,Bibwewadi, Pune 411037 Tel: (020) 24212251 / 52 Web: www.puneicai.org Email: admin@puneicai.org

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