



NORTHERN  
TRUST

---

# PUTTING IT ON & TAKING IT OFF:

## *Managing Tax Basis Today For Tomorrow*

---

**Paul S. Lee, J.D., LL.M.**  
Global Fiduciary Strategist  
The Northern Trust Company  
New York, NY  
[PSL6@ntrs.com](mailto:PSL6@ntrs.com)

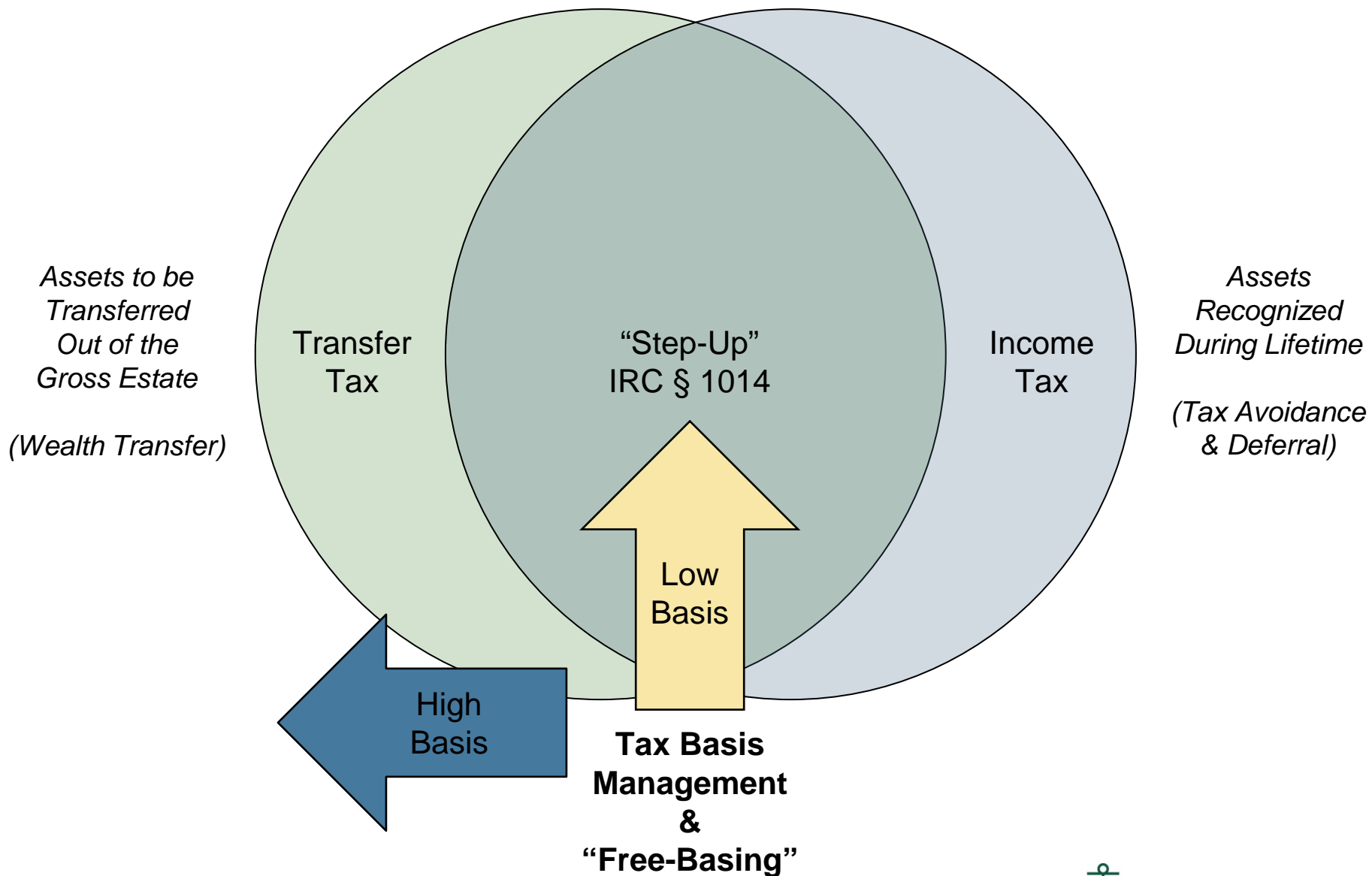
June 1, 2018



## *The Tax COVF EFE and Jibberish Act*

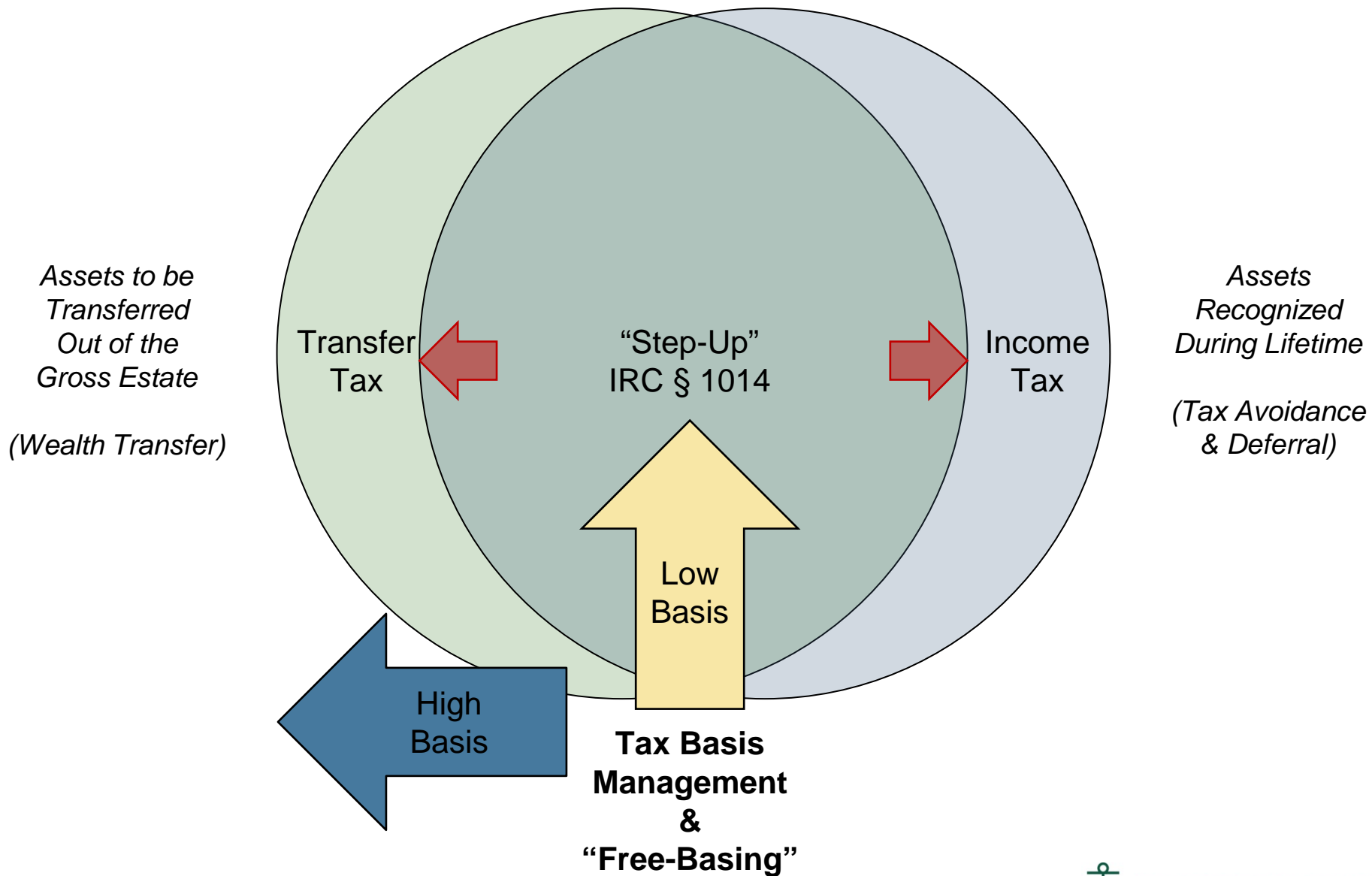


# The ATRA Transfer Tax Landscape: Venn Diagram





# The Temporary TCJA Transfer Tax Landscape: Venn Diagram

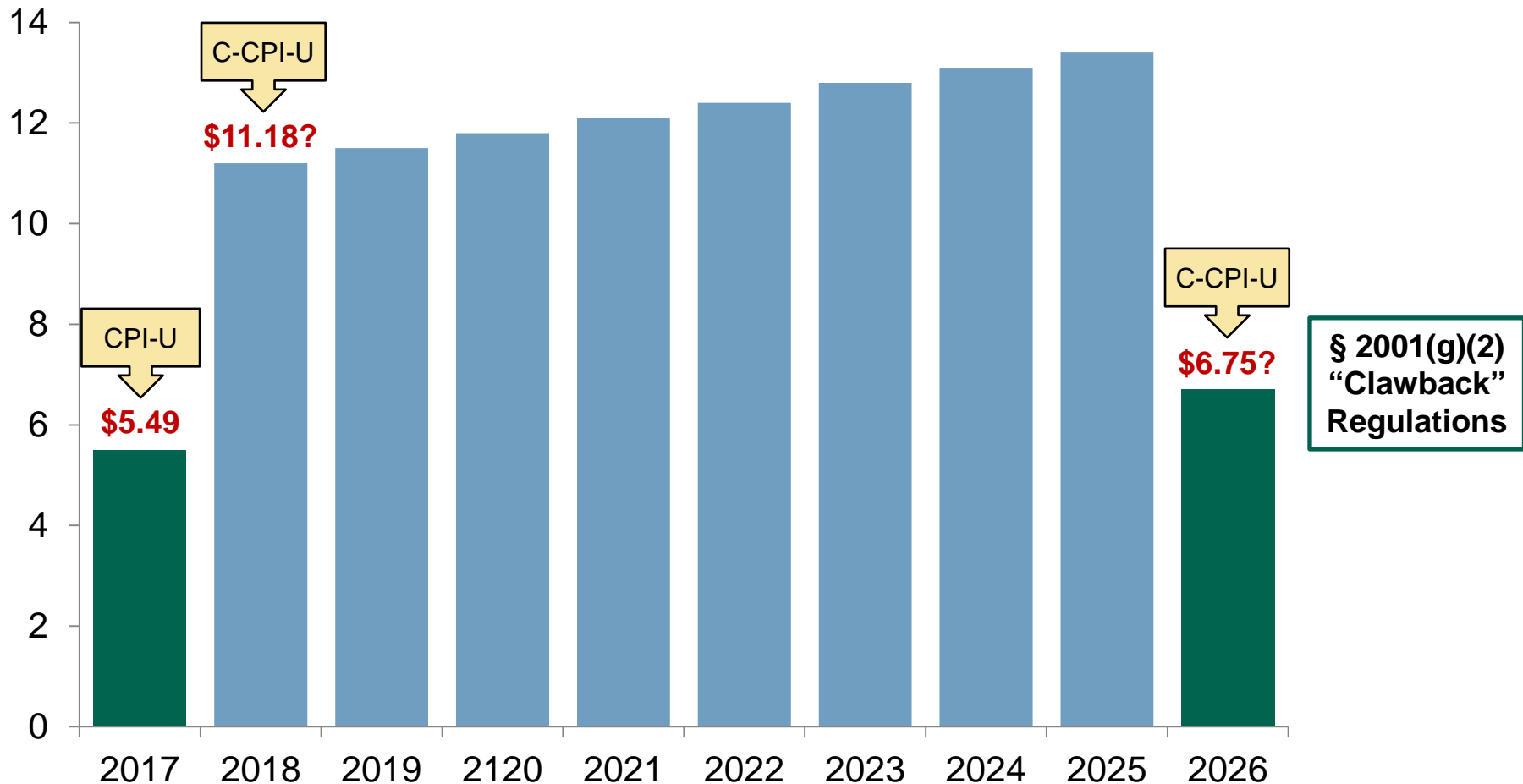




# 2012 All Over Again?

(\$ Mil.)

## Applicable Exclusion Amount





# § 199A: Qualified Business Income of “Pass-Thru” Entities

“Pass-Thru” Entities

**20% DEDUCTION**  
“Qualified Business Income”—“Qualified Items”  
“Qualified Trade or Business”—Not “Specified Service Trade or Business”

**LIMITED BY THE SUM OF:**  
*Lesser of:*  
(i) Combined Qualified Business Income (QBI), or  
(ii) 20% taxable income over net capital gain  
+  
*Lesser of:*  
(i) Qualified cooperative dividends, or  
(ii) Taxable income reduced by net capital gain

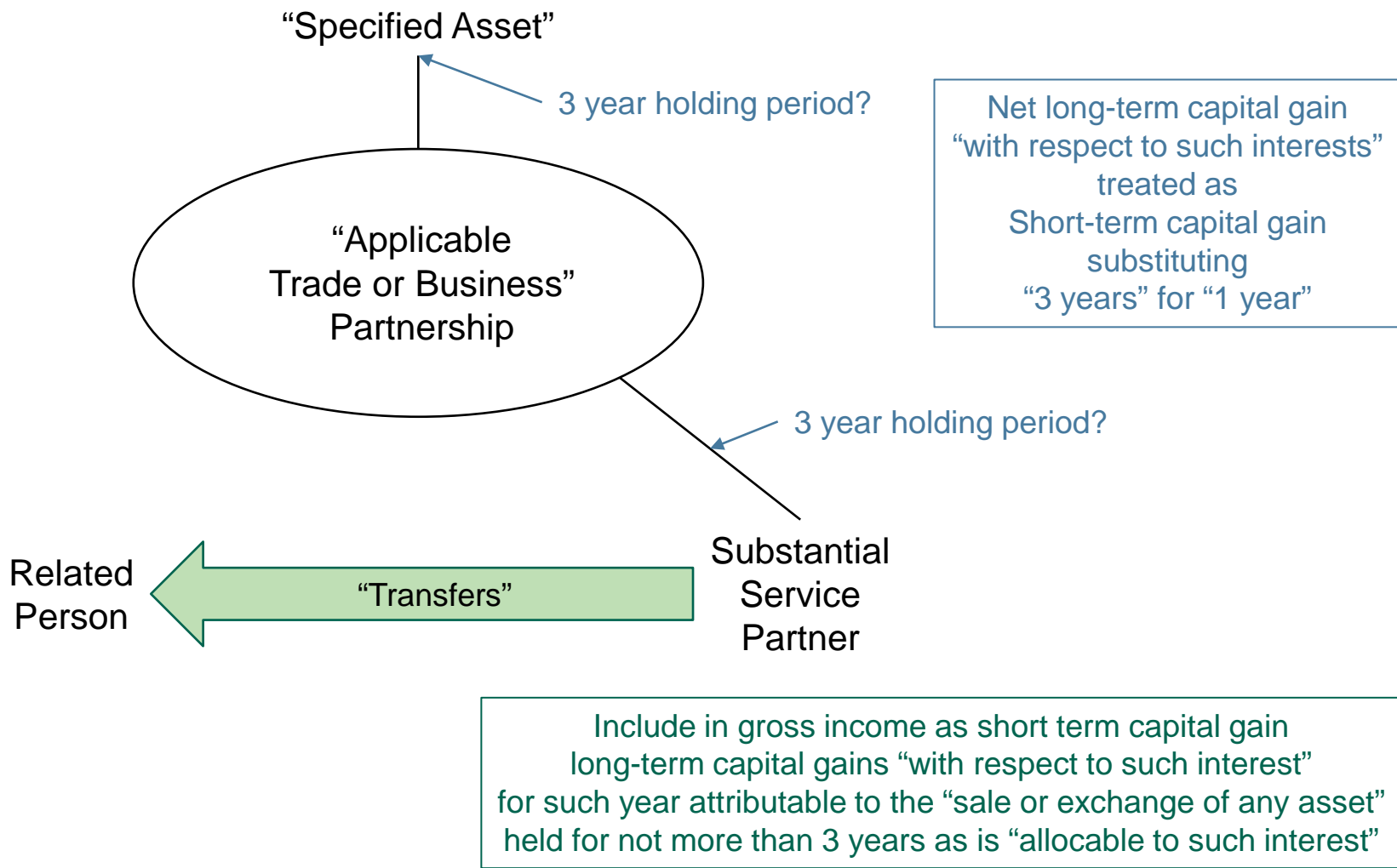
**QBI—SUM OF:**  
(i) Deductible amount for each trade or business (DAFETB)  
+  
(ii) 20% qualified REIT and PTP income

**DAFETB—LESSER OF:**  
(i) 20% QBI w/r/t each trade or business  
or  
(ii) *Greater of*  
(a) 50% W-2 wages, or  
(b) 25% W-2 wages plus 2.5% unadjusted basis immediately after acquisition of “qualified property”

*Does not apply to taxpayers below:  
\$157,500/\$315,000 (\$207,500/\$415,000)*



# § 1061: “Carried Interest” Provision





## Revenge of the § 2704 Prop. Regs.: Valuation of Notes

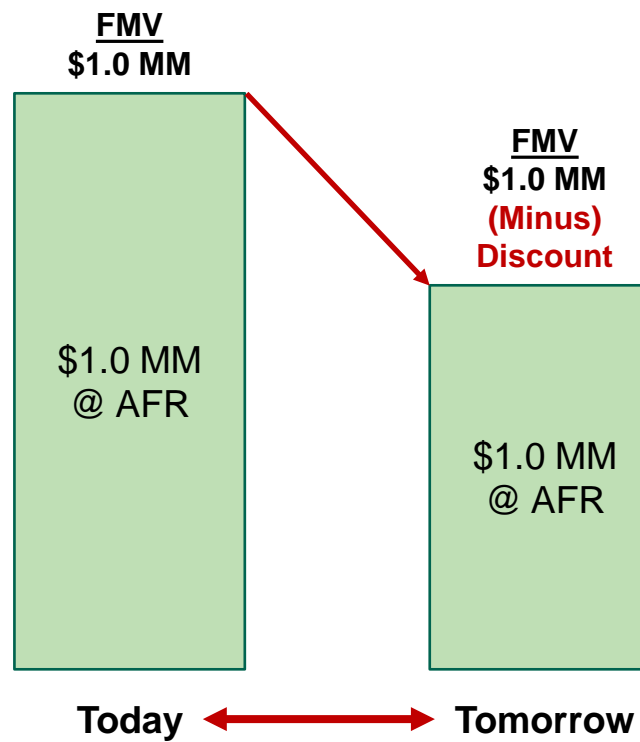
“In the case of an entity engaged in an active trade or business, at least 60 percent of whose value consists of the nonpassive assets of that trade or business, and to the extent that the liquidation proceeds are not attributable to passive assets within the meaning of section 6166(b)(9)(B), such proceeds may include such a note or other obligation if such note or other obligation is adequately secured, requires periodic payments on a non-deferred basis, is issued at market interest rates, and has a fair market value on the date of liquidation or redemption equal to the liquidation proceeds.” Prop. Treas. Reg. 25.2704-3(b)(iv).

### ■ Loans and Installment Sales Today

- ◆ Applicable federal rate (long-term, not short or mid-term);
- ◆ 10% (or less) equity;
- ◆ No prepayment penalty; and
- ◆ Adequate security not required.

### ■ Promissory Notes Will Need to Be:

- ◆ Adequately secured;
- ◆ Requires periodic payments on a non-deferred basis;
- ◆ Issued at market interest rates; and
- ◆ Has a fair market value equal to the liability.







# Some Assets Benefit from “Step-Up”—Some Do Not

“Step-Up” Important  
[Higher Valuation]



## Asset Type

## Tax Characteristic

Creator-Owned Copyrights, Trademarks, Patents & Artwork

Ordinary Transforms to Long-Term

“Negative Basis” Commercial Real Property LPs

Recapture & >100% Long-Term

**“Bonus Depreciation” Qualified Property under § 168(k)**

§ 1245 Recapture

Oil & Gas Investments

§ 1245 Recapture

Artwork, Gold & Other “Collectibles”

28% Long-Term

Low Basis Stock

20% Long-Term

Roth IRA Assets

Tax Free & No Surcharge

**Qualified Small Business Stock (QSBS)**

§ 1202 Gain [50, 60, 75 or 100%] Exclusion

High Basis Stock

Minimal Gain

Fixed Income

Typically Minimal Gain

Cash

Basis = Face Value

Passive Foreign Investment Company (PFIC) Shares

No “Step-Up”

Stock at a Loss

Capital Loss Erased

Variable Annuities

Partially IRD

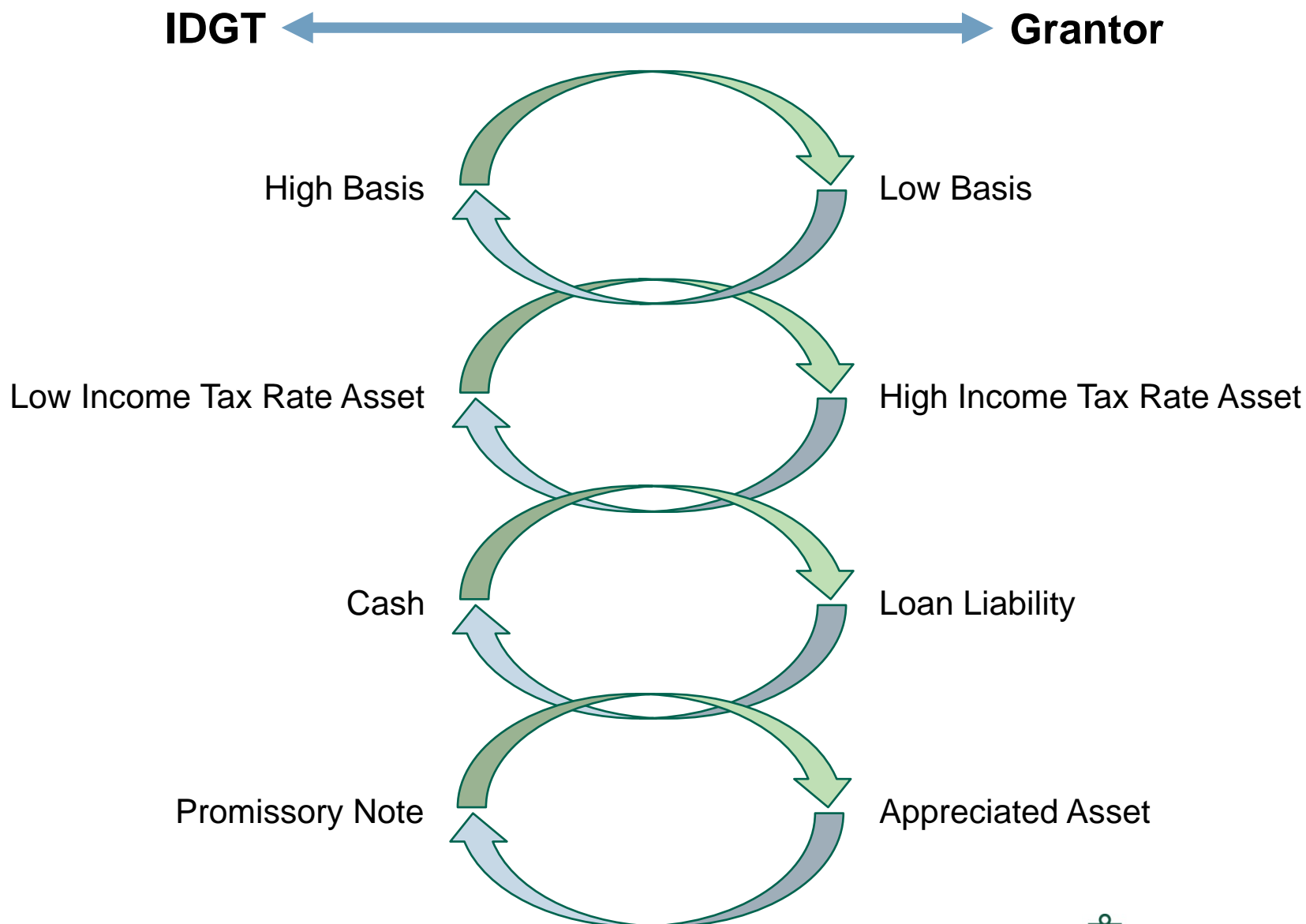
Traditional IRA & Qualified Plan Assets

100% IRD

“Step-Up” not Important  
[Lower Valuation]



# Tax Basis Management Basics: Grantor Trust Swapping?

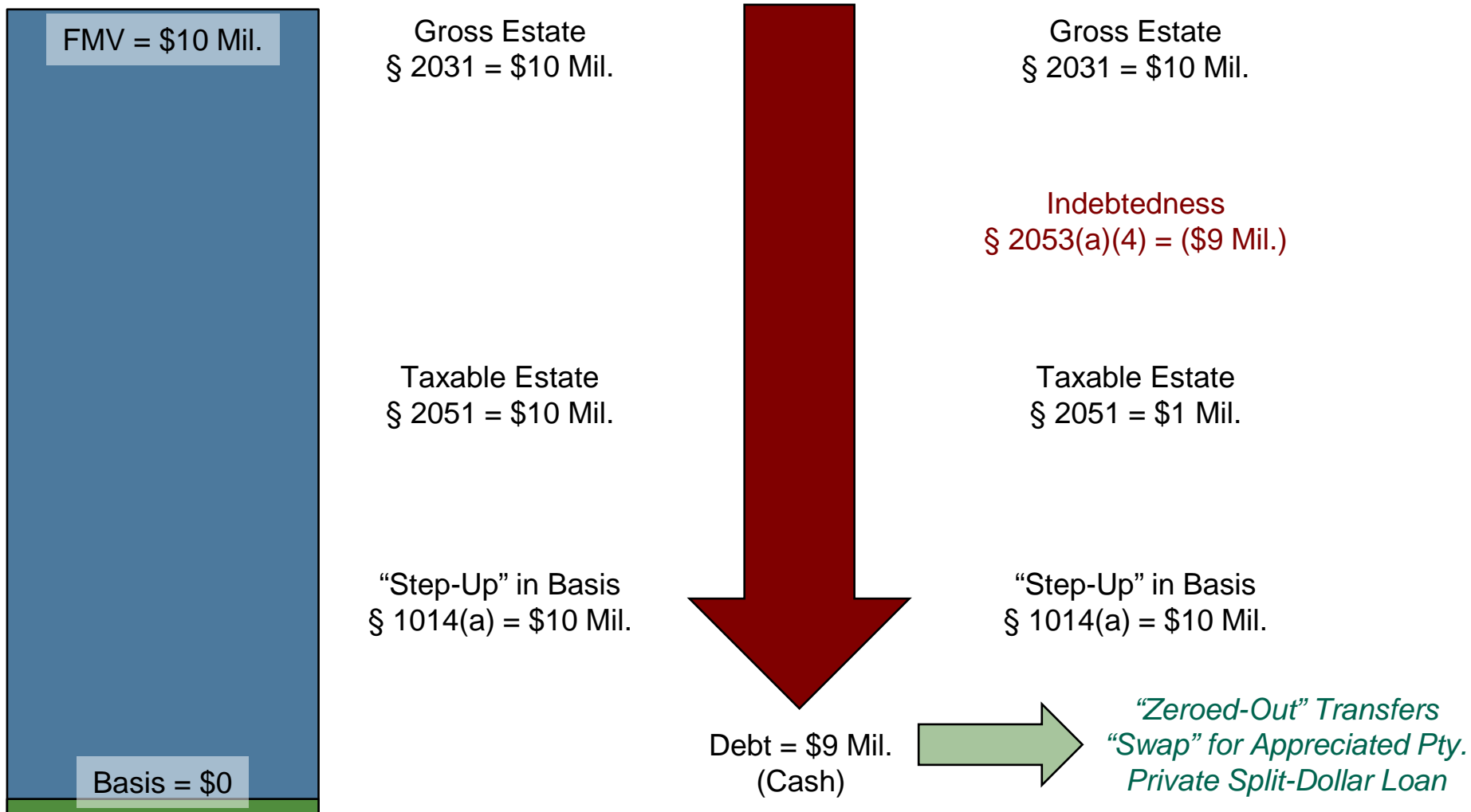




# *Using Debt to “Multiply” The “Step-Up” In Basis*

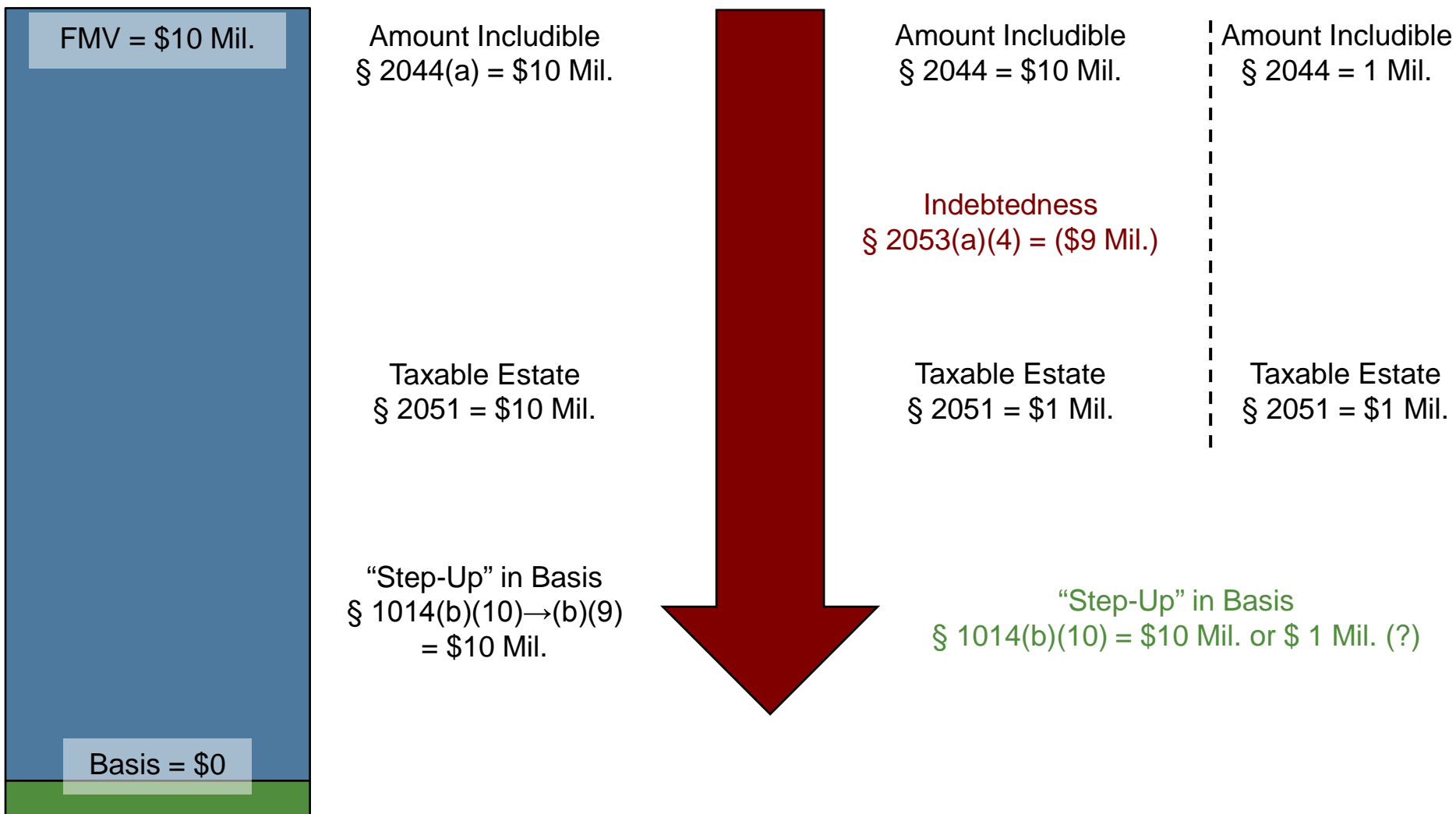


# Maximizing the “Step-Up” & Minimizing Estate Tax: Debt





# Debt with QTIP Trusts?



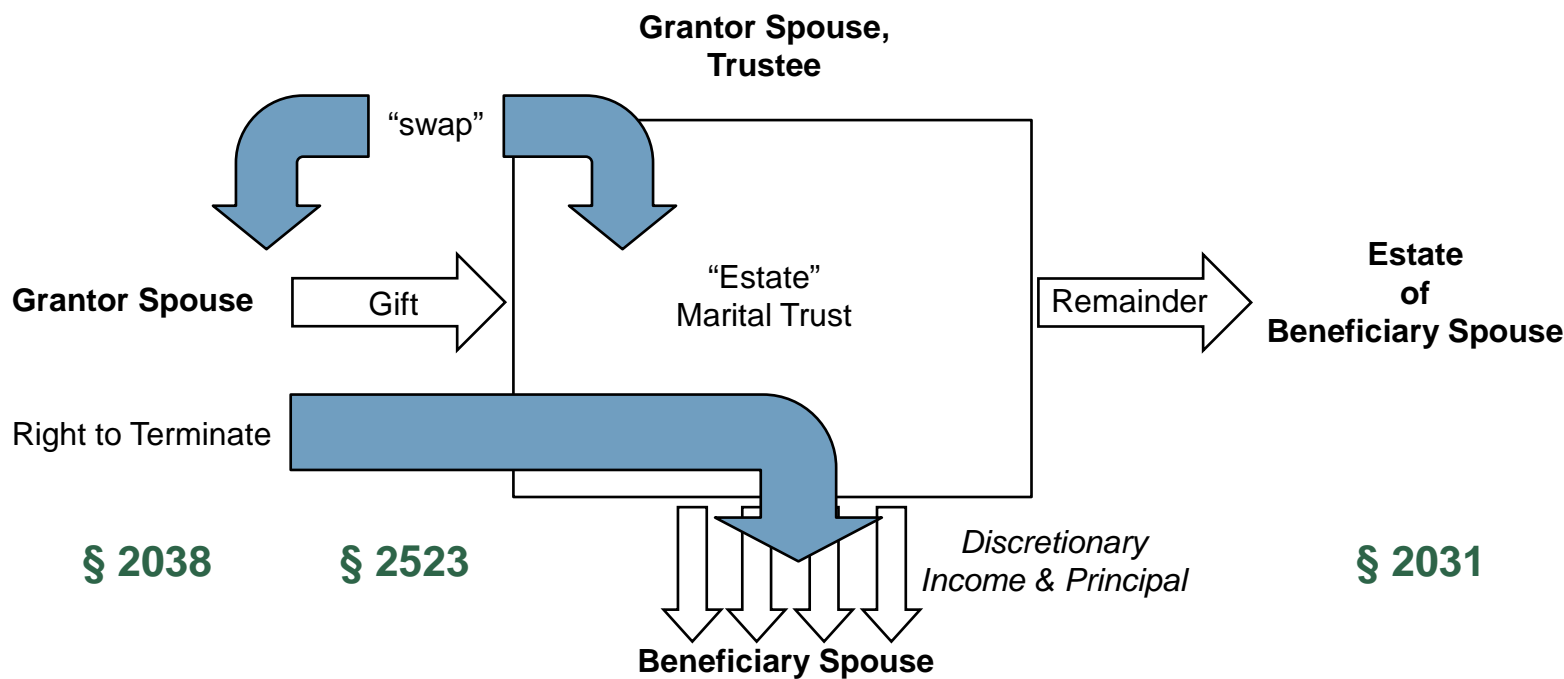


## *“Double Step-Up” In Basis*



# “Double Step-Up” in Basis

- Community Property
- Elective or Consensual Community Property Trusts (AK, TN & SD)
- Joint Exempt Step-Up Trust (JEST)
- Section 2038 Estate Marital Trust



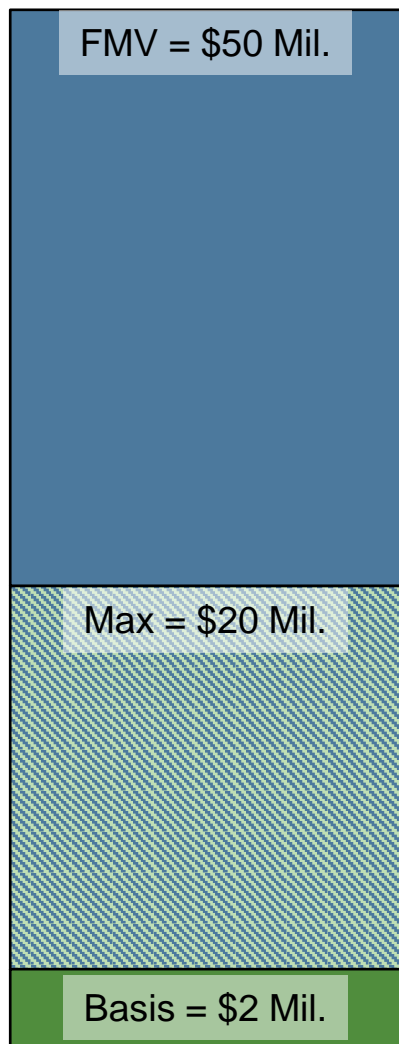


# *Tax Basis Management with Qualified Small Business Stock*





# Tenfold Benefit of Basis with QSBS

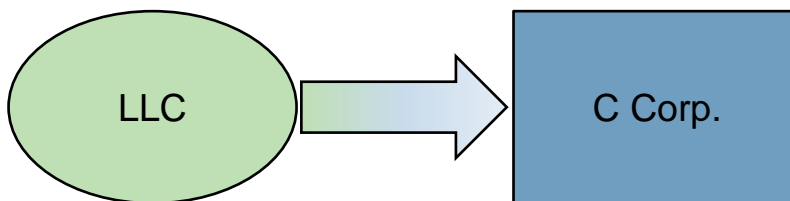


Maximum excluded eligible gain is **greater** of:

- \$10 Mil. in aggregate for all prior taxable years; or
- 10 times adjusted basis (without regard to additions to basis after original issuance, *sort of...*).

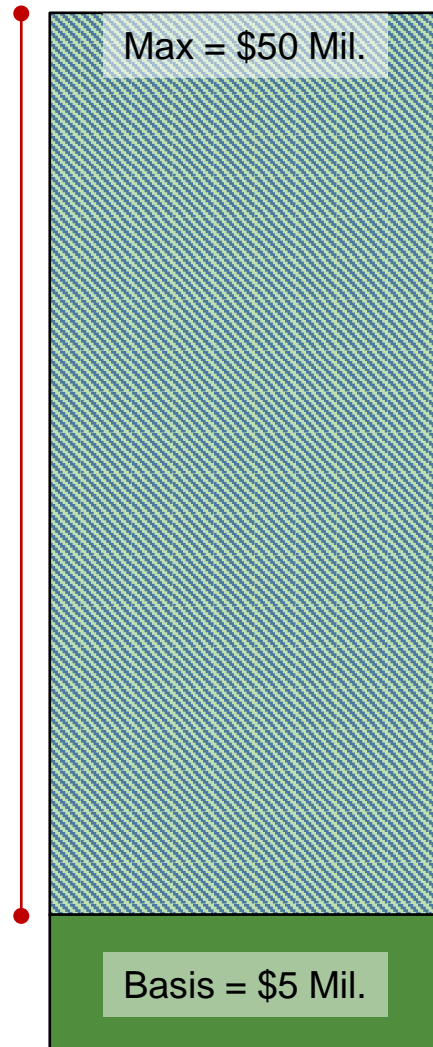
\$50 Mil. aggregate gross assets limitation:

- Cash, and
- Basis of property held by corporation (but contributed property is deemed to have basis equal to FMV)



Tax Basis Management Prior to Conversion:

- Marking appreciated assets to FMV
- Contributions of appreciated assets
- Cash contribution
- Contribution of borrowed funds (not at LLC)
- Contribution of high basis property
- Selling assets for taxable gain

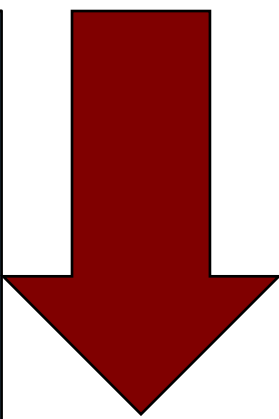
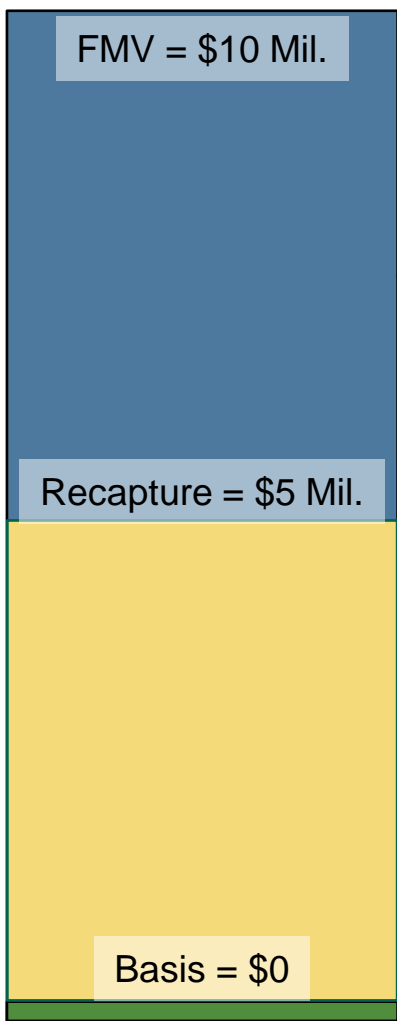




***Using A Contract Derivative  
To “Transfer” But Still Own  
The Asset For The “Step-Up.”***



# Sell The Appreciation Via Contract, Own The Asset



Debt = \$4 Mil.

9-YEAR CONTRACT

Grantor "Sells"  
Personal Obligation to Pay

Total Return =

FMV of Property  
**LESS Debt**  
PLUS Net Rental Income



9-YEAR PROMISSORY NOTE

\$6 Mil.  
**LESS Discount**  
**"Personal Obligation Risk"**

## BUSINESS REASONS

- Real Property Tax
- Creditor Consent
- Real Estate Transfer Tax
- NIIT/Material Participation
- Expenses of Transfer

**IDGT**

## ISSUES

- Valuation?
- Settled Before Date of Death?
- Estate Tax Deduction?
- Ordinary Income/Deduction?
- Satisfied with What Asset?

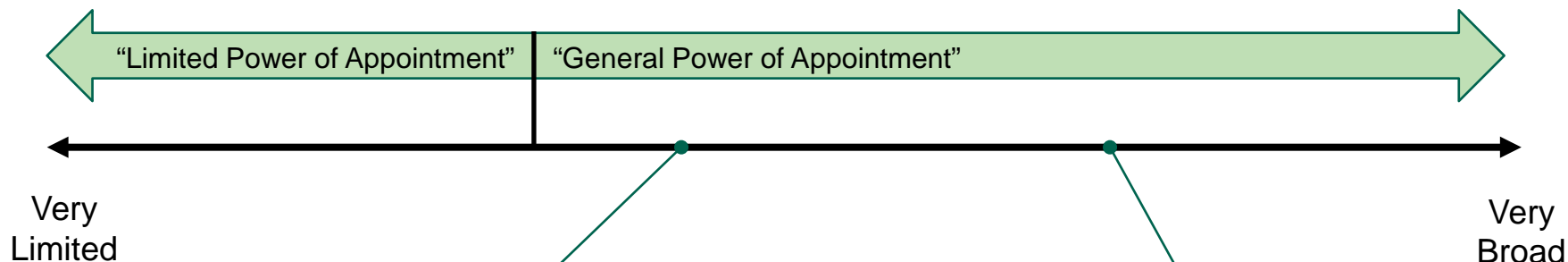
**Depreciated  
Real Property**



## *Powers of Appointment & “Upstream” Planning*



# Powers of Appointment: How Restrictive?

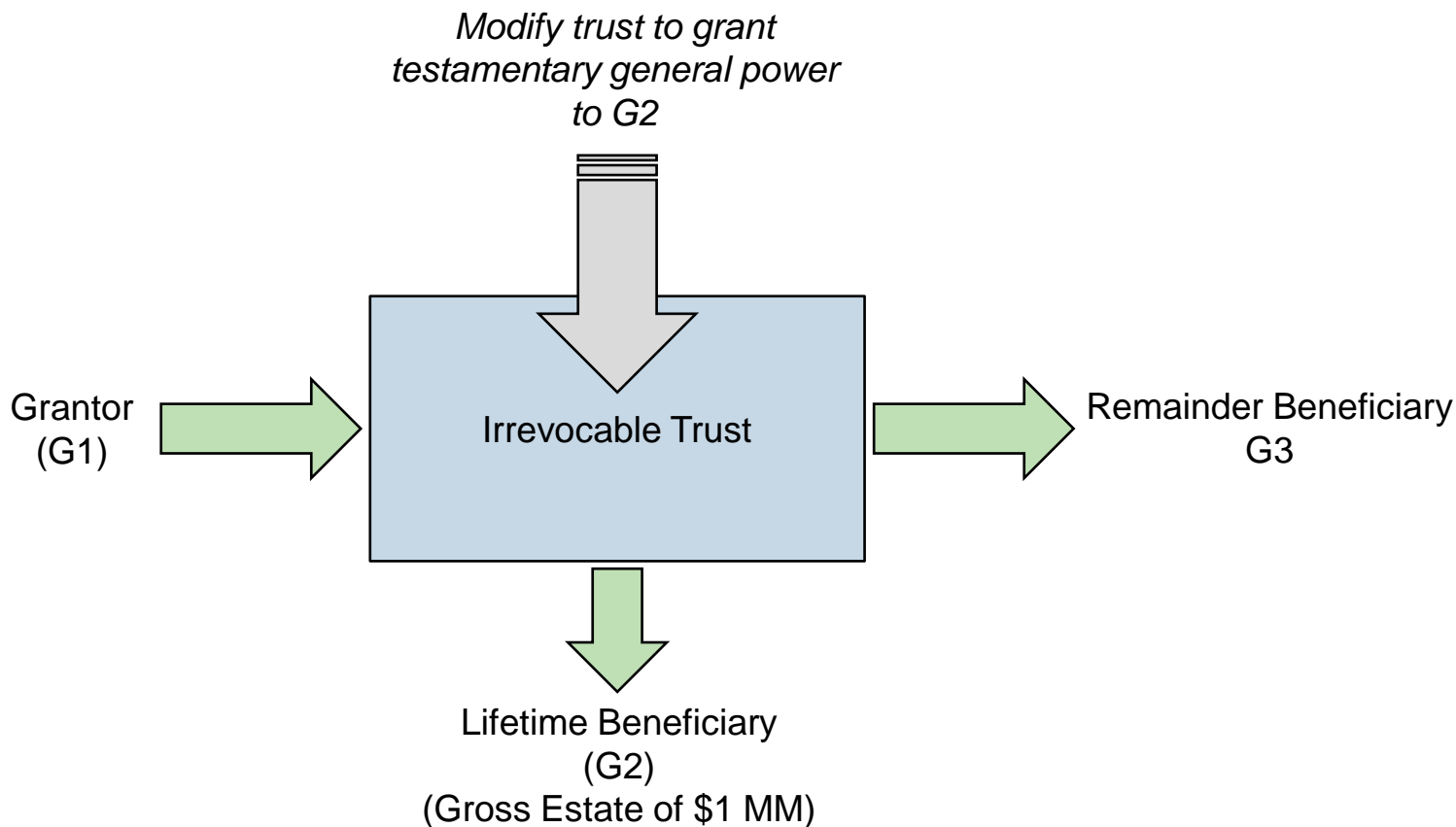


- Testamentary power;
- Exercisable in favor of creditors of the estate of the powerholder;
- With the consent of a non-adverse party;
- To the extent of available exclusion amount; and
- Only over assets that benefit the most from a “step-up”

- Inter-vivos or testamentary
- Exercisable in favor of:
  - ◆ Powerholder,
  - ◆ Estate of powerholder, and
  - ◆ Creditors of the estate of the powerholder
- Over all assets.



# Granting Powers of Appointment

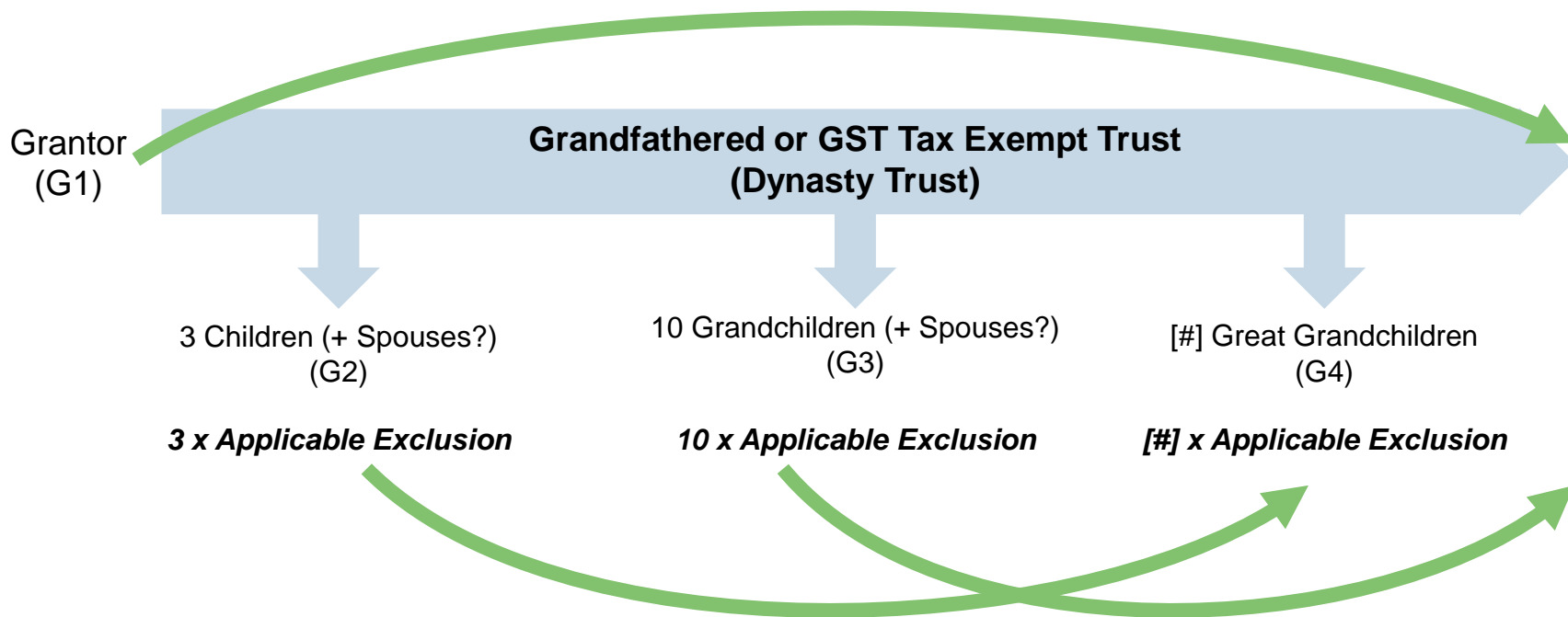




# Powers and Multiplying the Applicable Exclusion

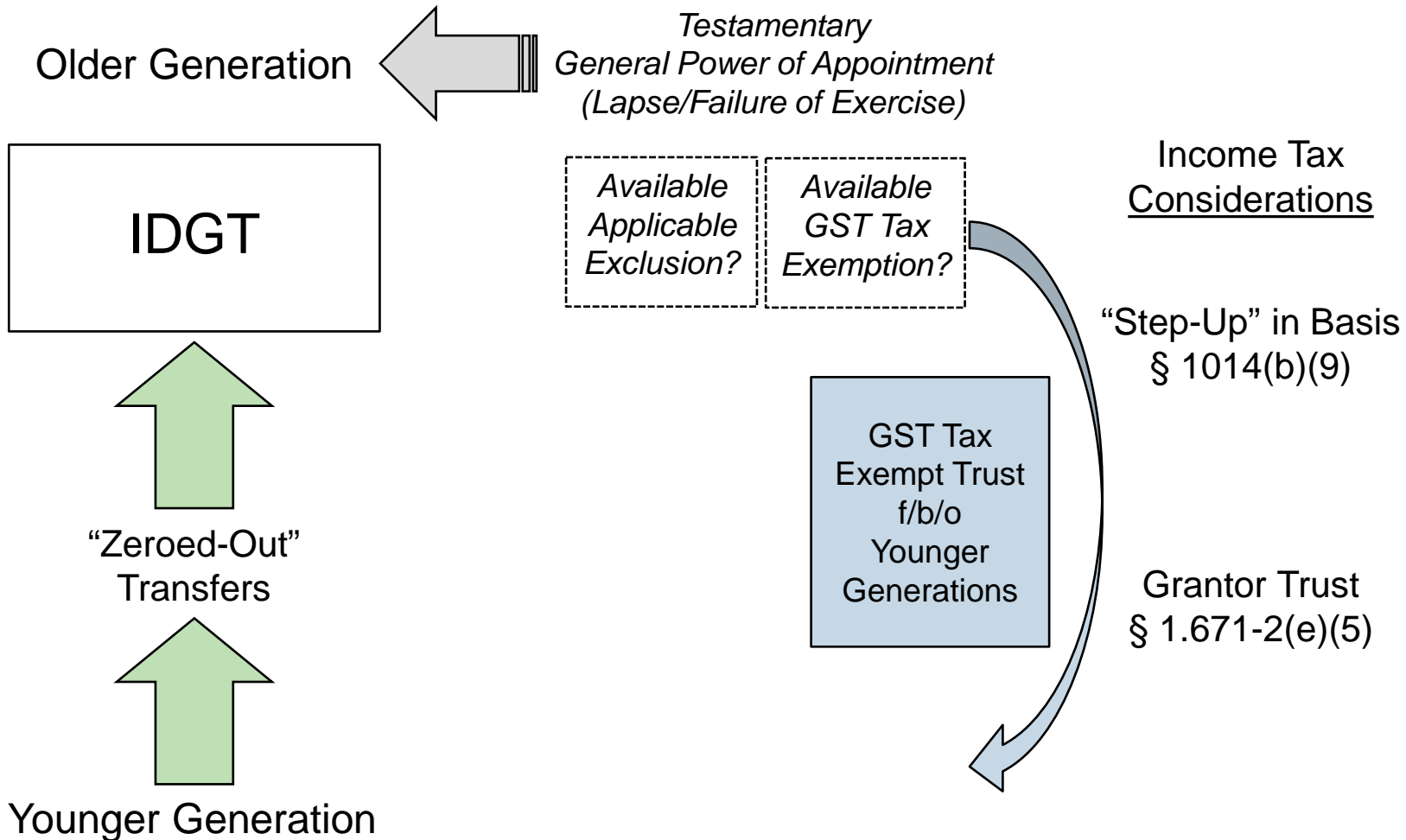
## ■ Testamentary General Powers of Appointment

- ◆ Formula clause: each beneficiary's unused Applicable Exclusion Amount (estate and GST tax), specific to asset that would most benefit from "step-up" in basis, and in default in further trust.
- ◆ Independent trustee/protector giving testamentary general power of appointment to beneficiary.
- ◆ Modification of existing trusts or decanting.





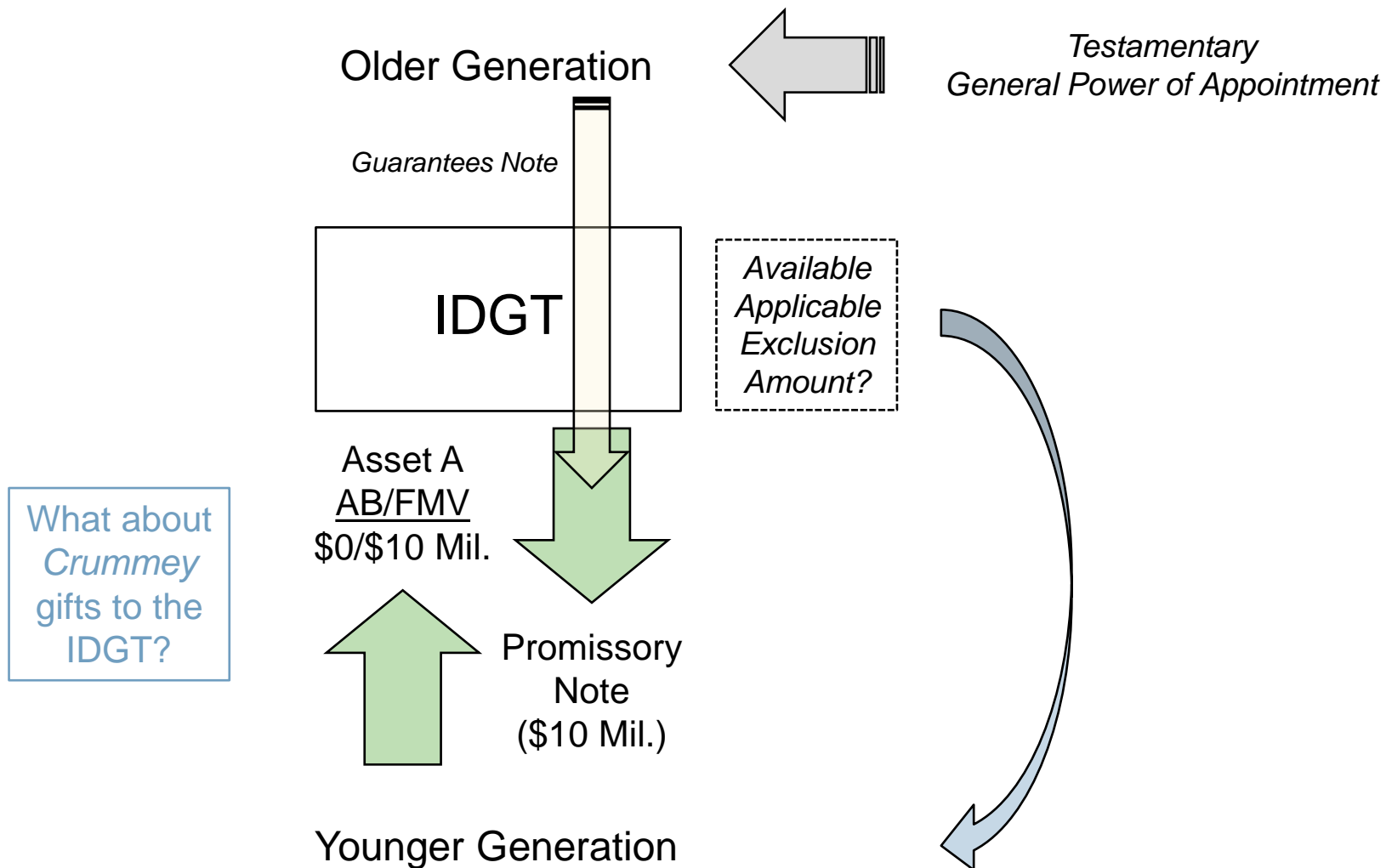
# Upstream Planning: “Accidentally Perfect” Grantor Trust





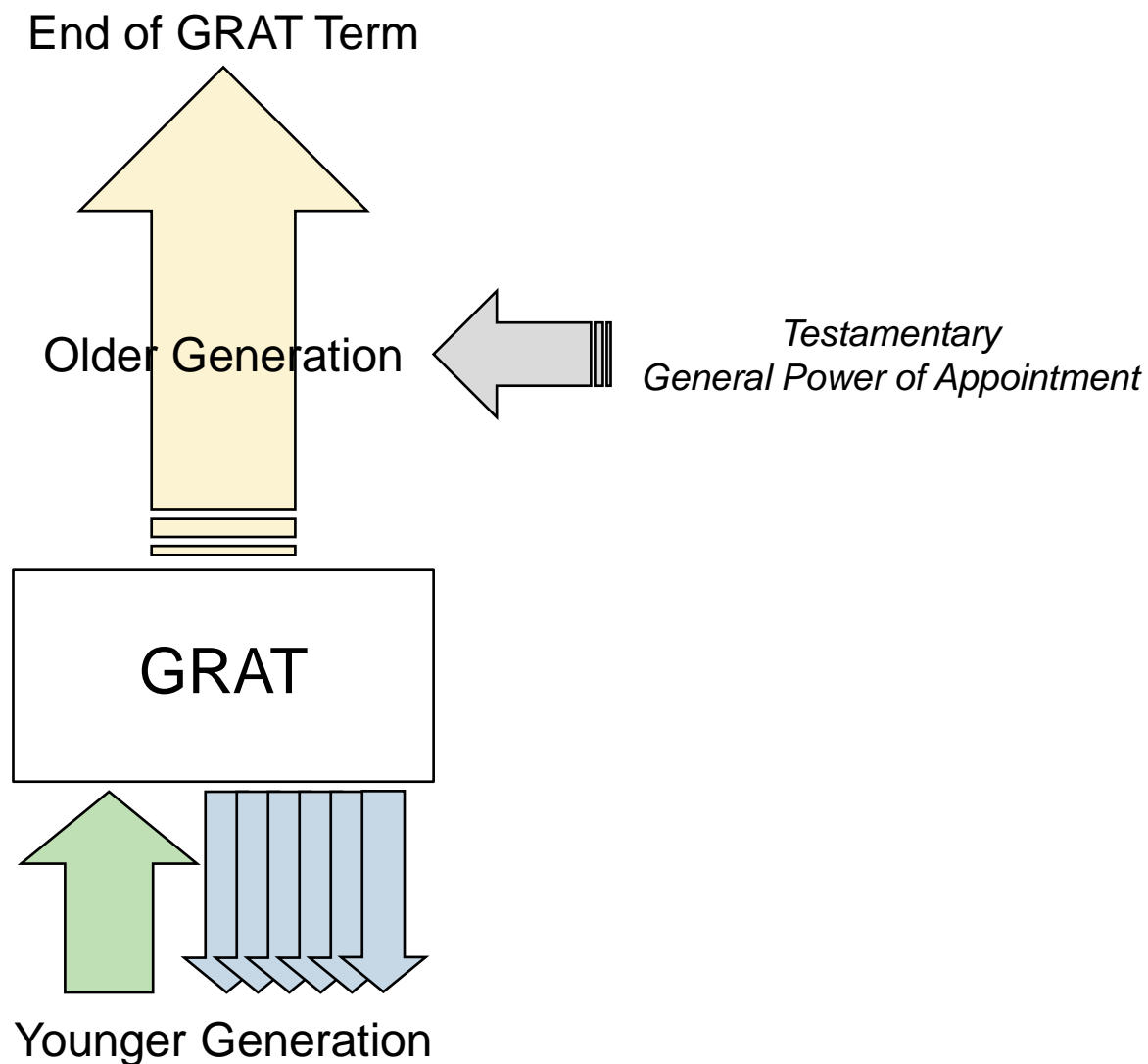


# Upstream Planning: UPSPAT?





# Upstream GRAT Remainders?





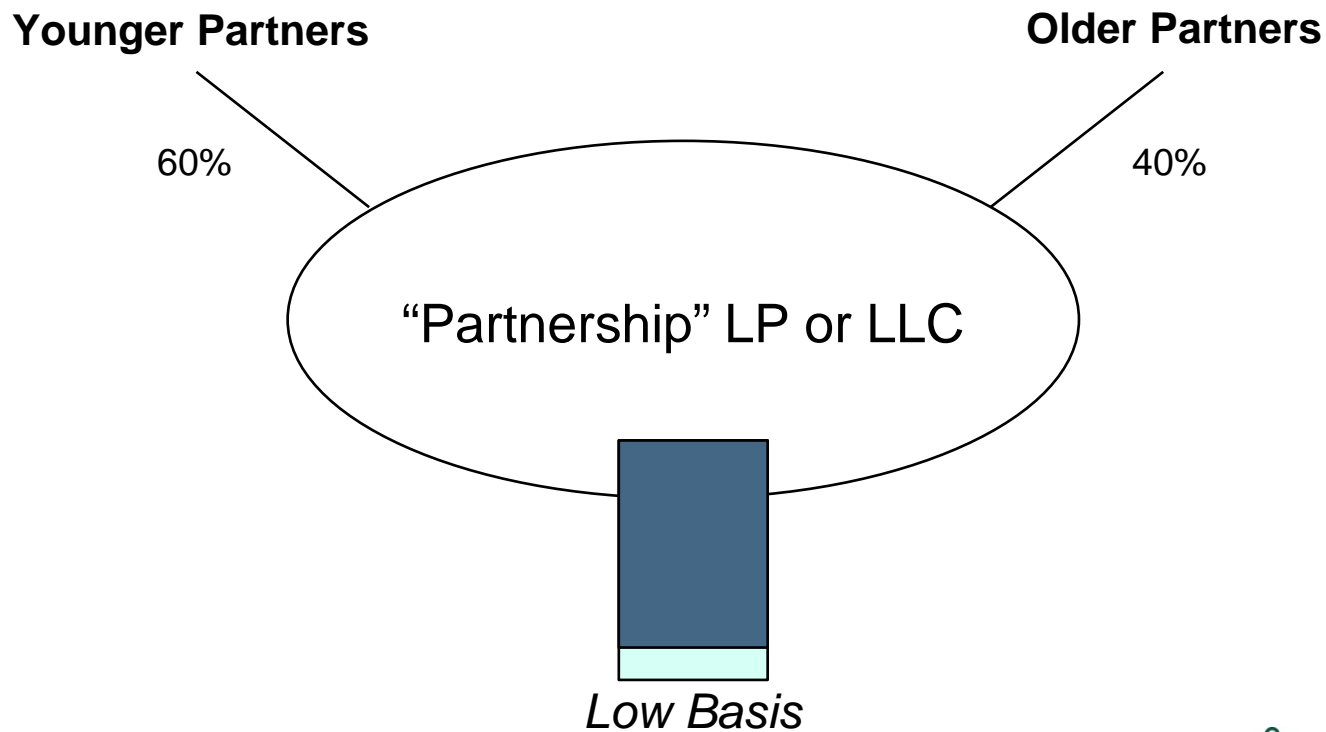
***Partnerships:  
The Most Flexible  
Tax Basis Management  
Tool For Planners***



***Eliminating Valuation Discounts  
On Pre-Existing FLP Interests  
Included in the Gross Estate***

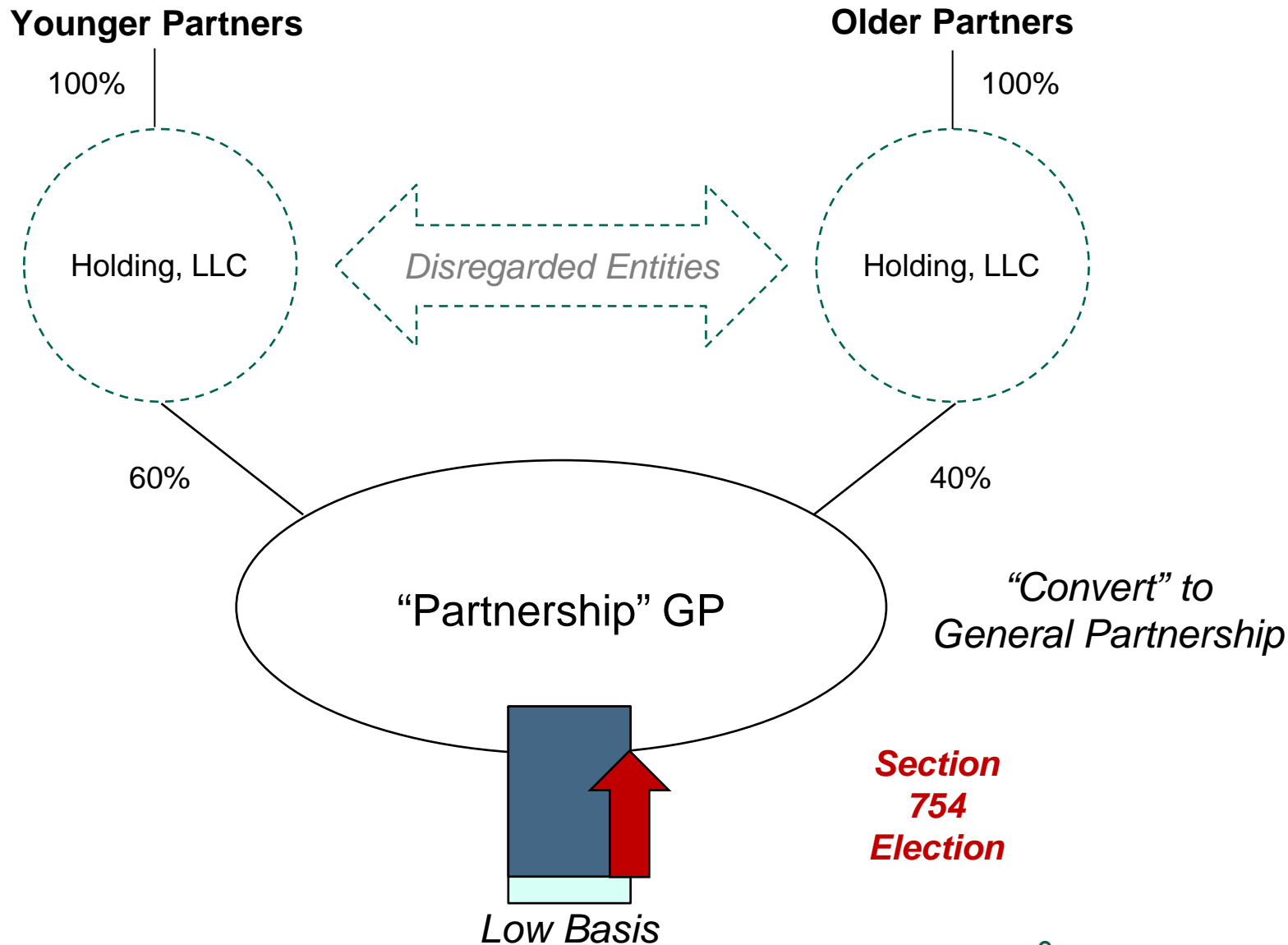


# Eliminating Valuation Discounts on Pre-Existing FLPs





# Eliminating Valuation Discounts on Pre-Existing FLPs

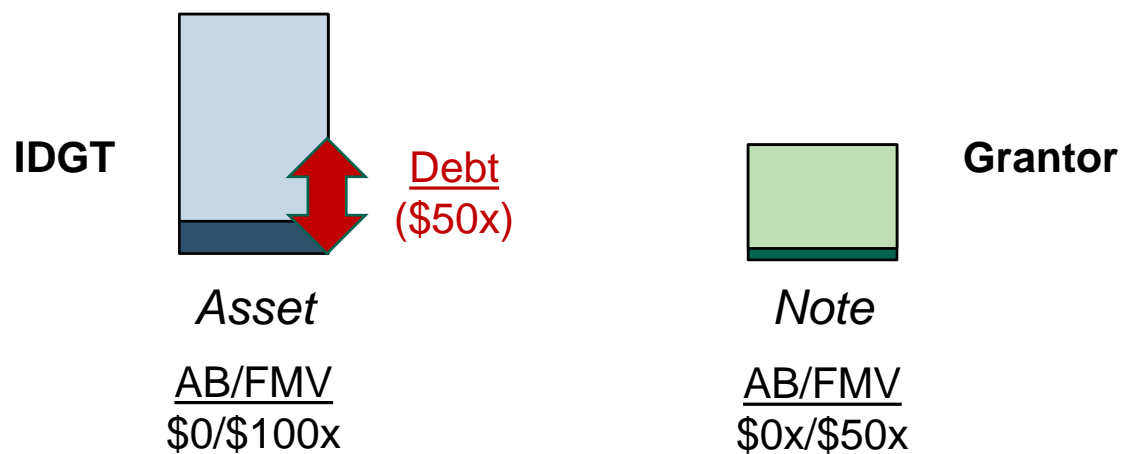




# *Eliminating Outstanding Installment Notes, Avoiding Gain At Death, And Getting A “Step-Up” On The IDGT Property*



# Installment Sale to IDGT and Outstanding Note

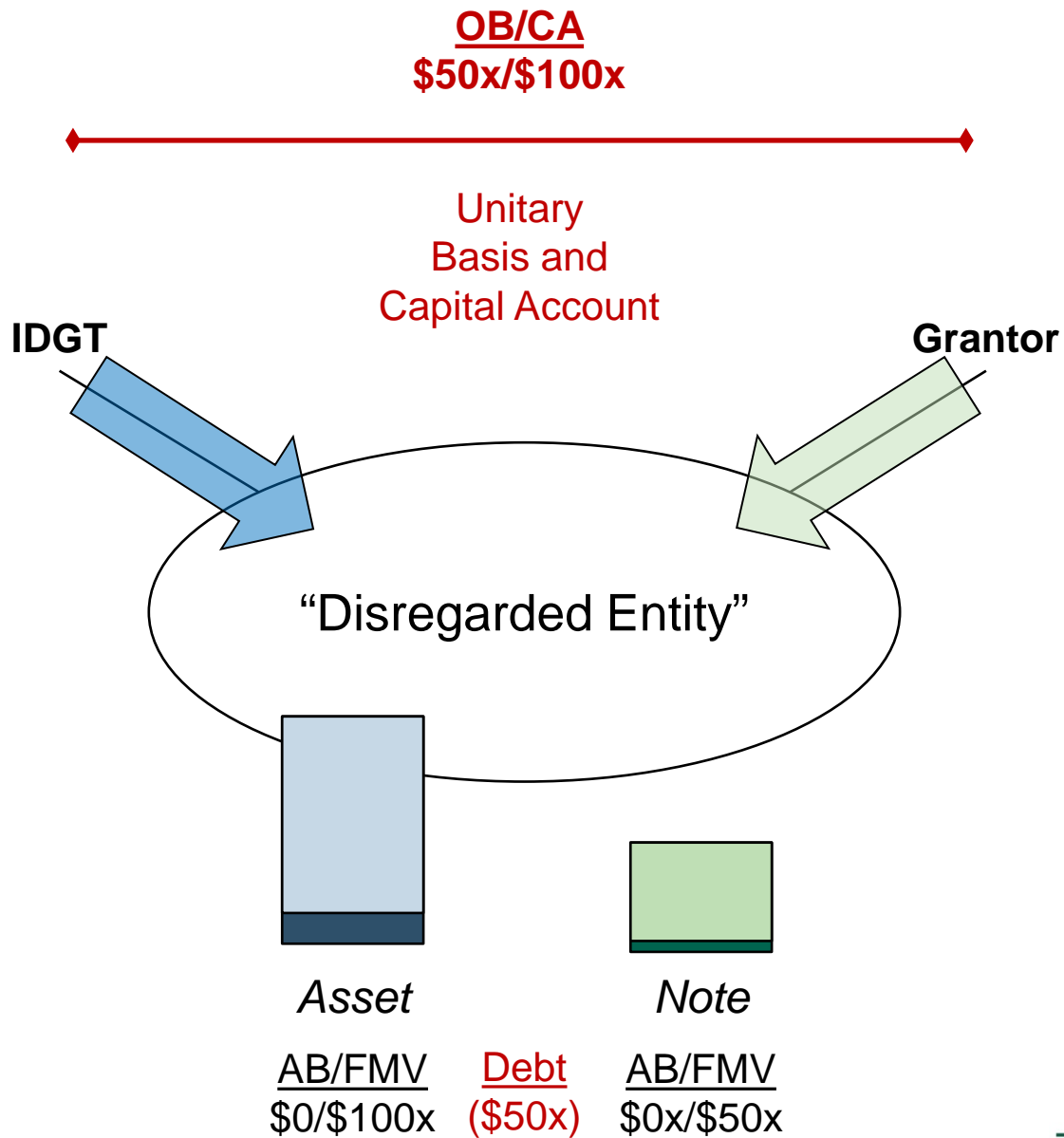


***Potential \$50x Taxable Gain  
Upon Conversion of  
Grantor Trust to Non-Grantor Trust***



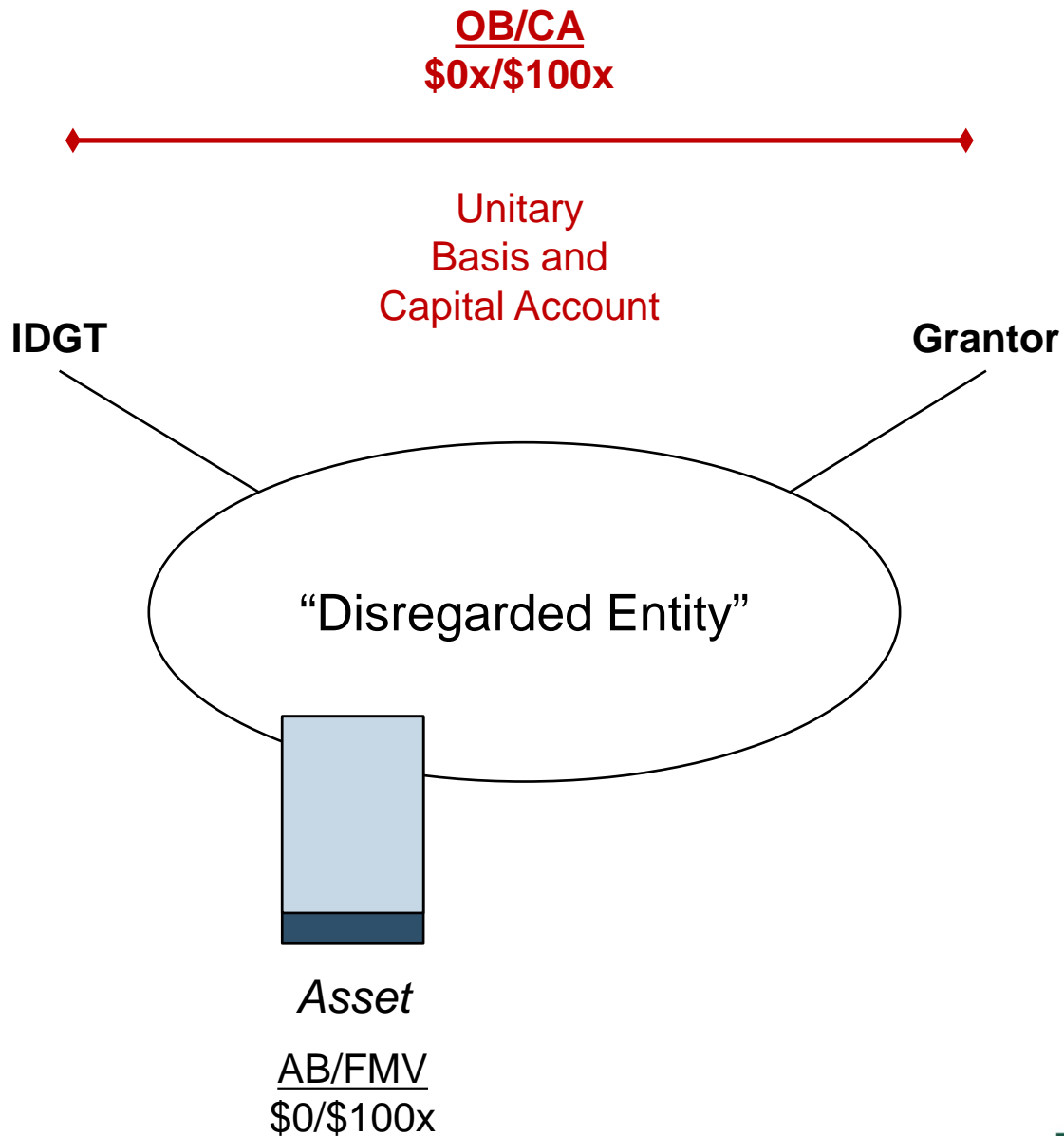


# Contribution to Disregarded Entity



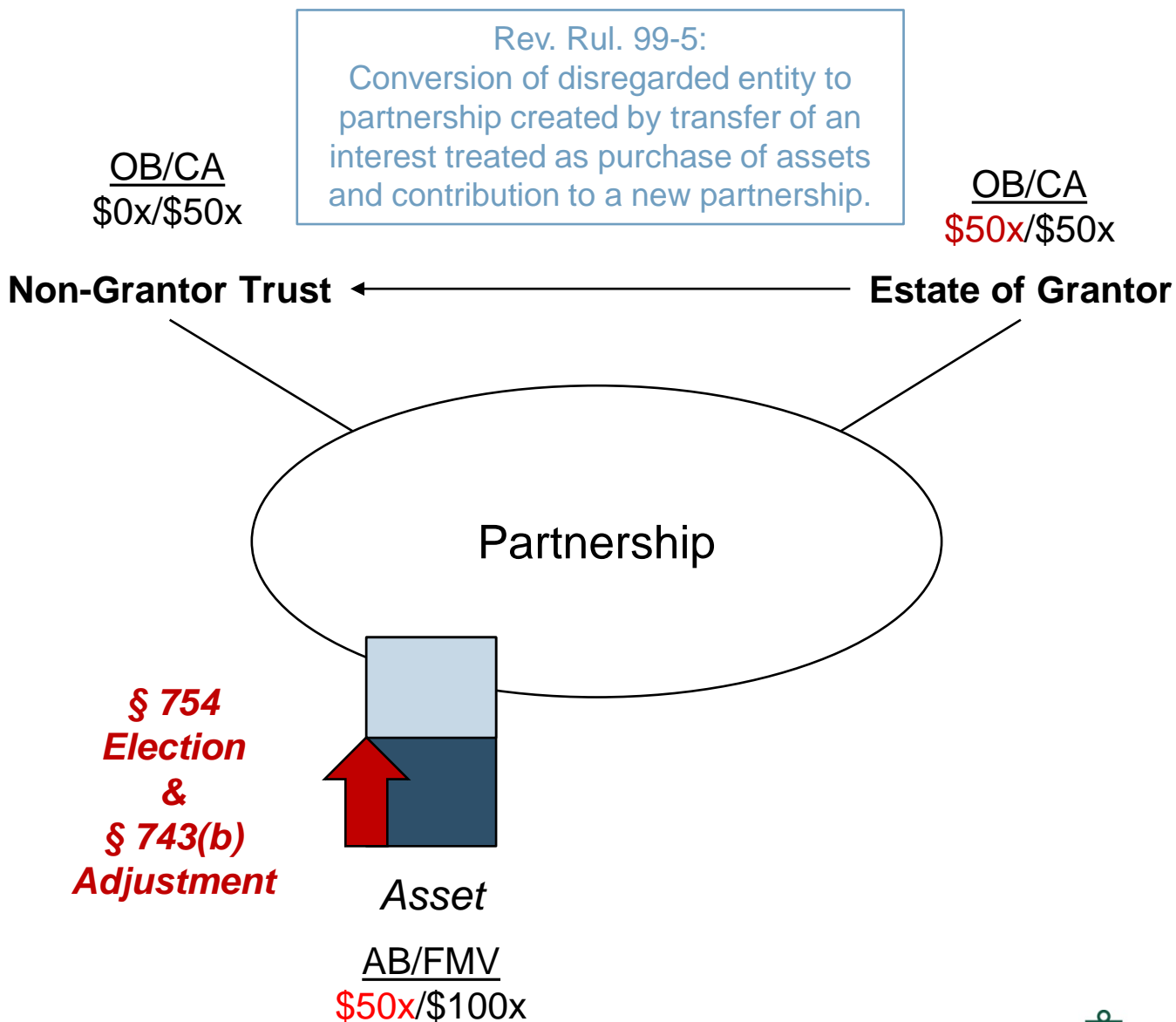


# Debt Merges and Disappears





# Conversion to Non-Grantor Trust & Partnership at Death

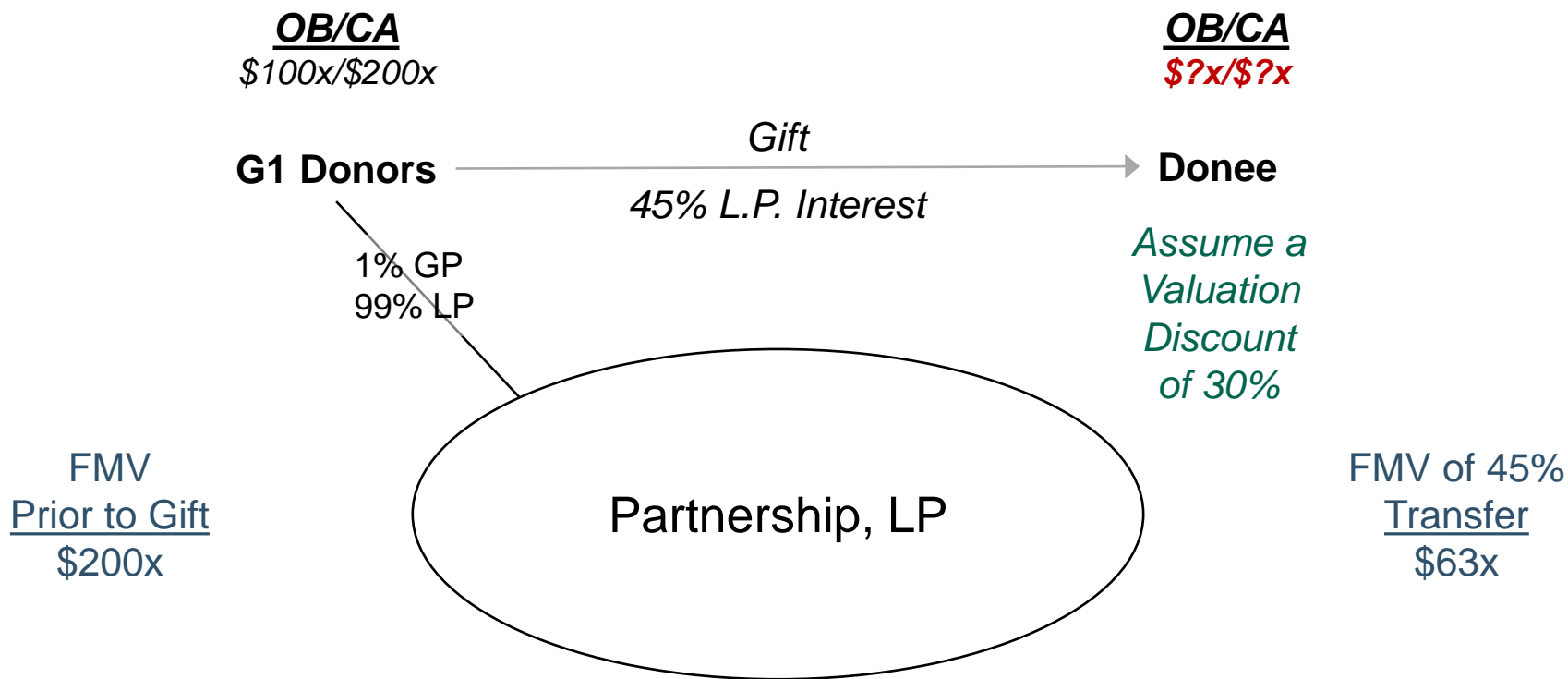




# *Calculating Outside Basis And Capital Account When A Partnership Interest Is Transferred*



# Transferring Basis and Capital Account





# Calculating Capital Account & Basis of Transferred Interest

## CAPITAL ACCOUNT OF TRANSFERRED INTEREST

Upon a transfer of all or a part of a partnership interest, the transferor's capital account "that is attributable to the transferred interest carries over to the transferee partner."

Treas. Reg. § 1.704-1(b)(2)(iv)(I). See Treas. Reg. § 1.704-1(b)(5), Ex. 13.

$$\begin{array}{rcccl}
 \text{Transferor's} & & & & \text{Transferee's} \\
 \text{Capital Account} & & \text{Percentage} & & \text{Capital Account} \\
 \hline
 \$200x & \times & \text{Transferred} & = & \hline
 & & 45\% & & \$90x
 \end{array}$$

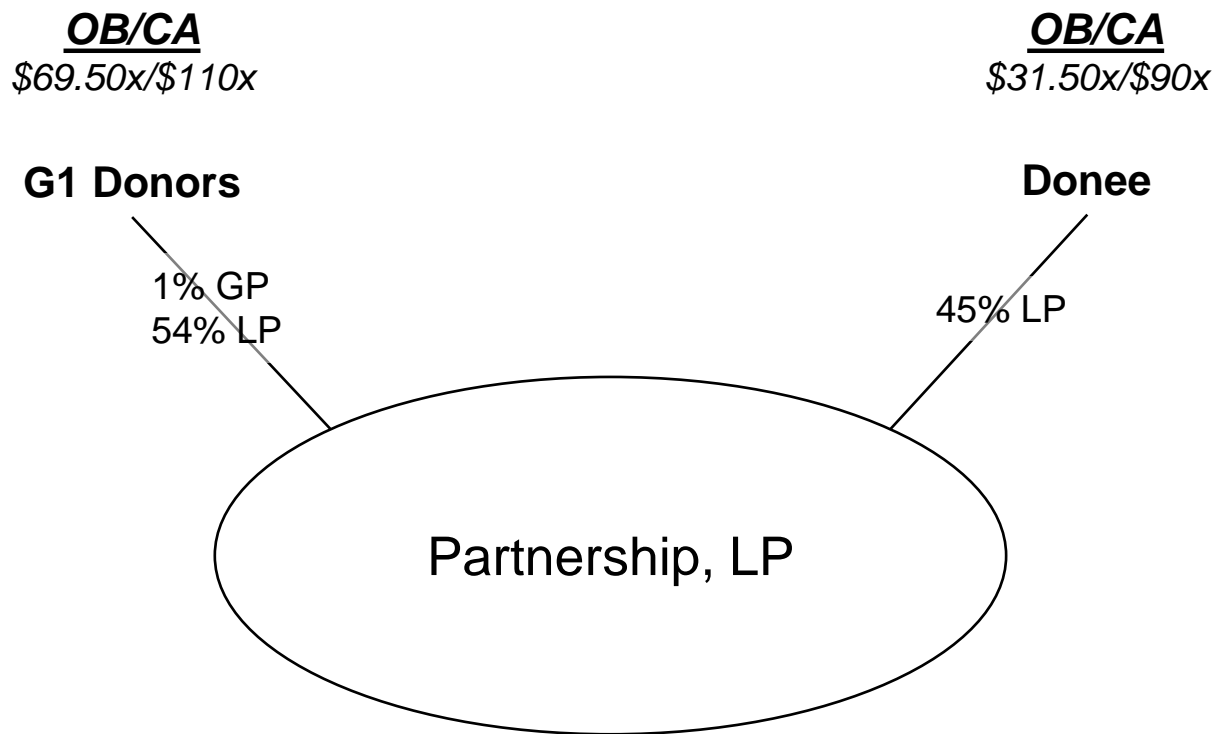
## ADJUSTED BASIS OF TRANSFERRED INTEREST

"[T]he basis of the transferred portion of the interest generally equals an amount which bears the same relation to the partner's basis in the partner's entire interest as the fair market value of the transferred portion of the interest bears to the fair market value of the entire interest." Rev. Rul. 84-53, 1984-1 C.B. 159.

$$\begin{array}{rcccl}
 \text{Transferor's} & & \text{Fair Market Value (Discounted)} & & \text{Transferee's} \\
 \text{Adjusted Basis} & & \text{Transferred Portion} & & \text{Adjusted Basis} \\
 \hline
 \$100x & \times & \$63x & = & \hline
 & & \text{Fair Market Value} & & \text{Transferee's} \\
 & & \text{Transferor's Entire Portion} & & \text{Adjusted Basis} \\
 & & \$200x & & \$31.50x
 \end{array}$$

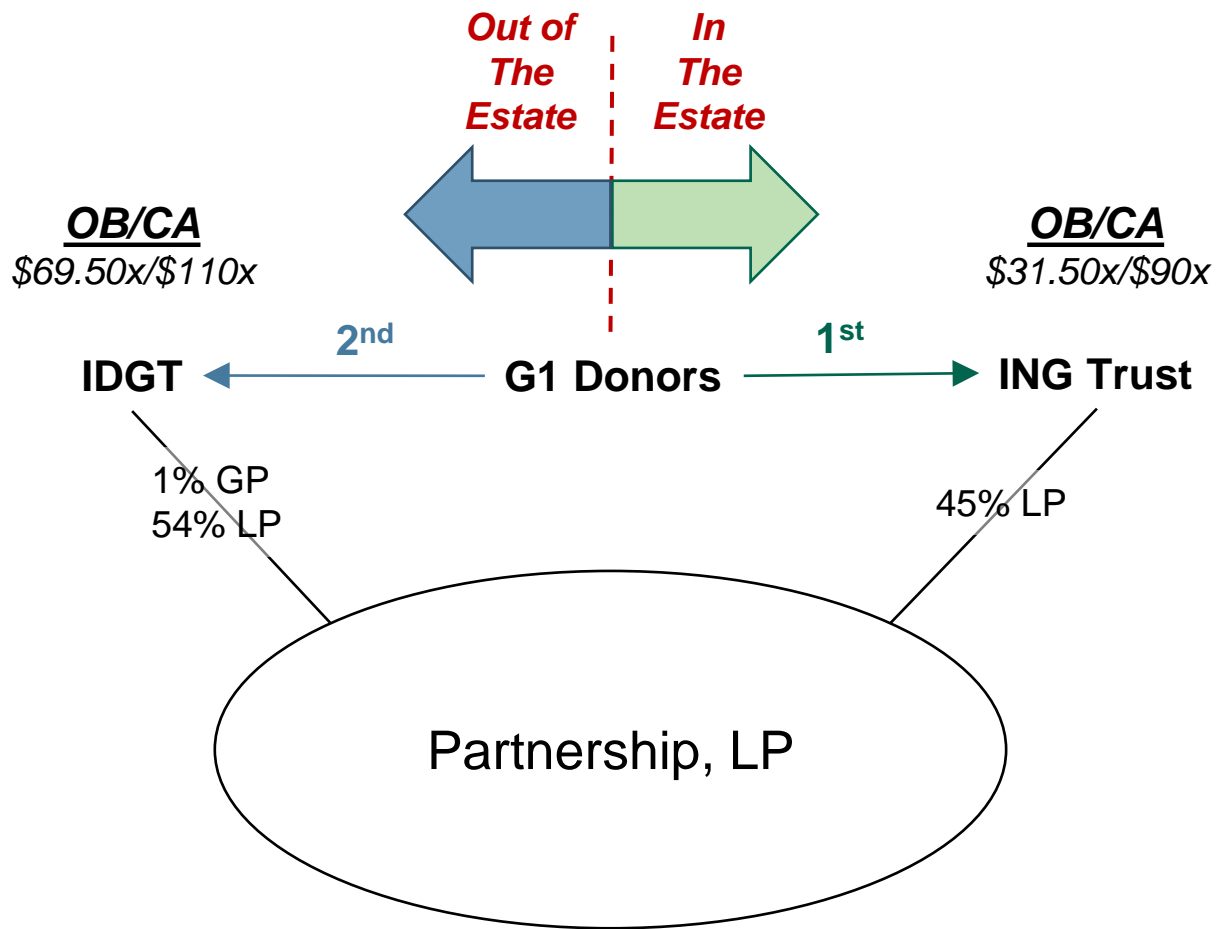


# Less Basis is Transferred





# Incomplete Gift to Non-Grantor Trusts First?



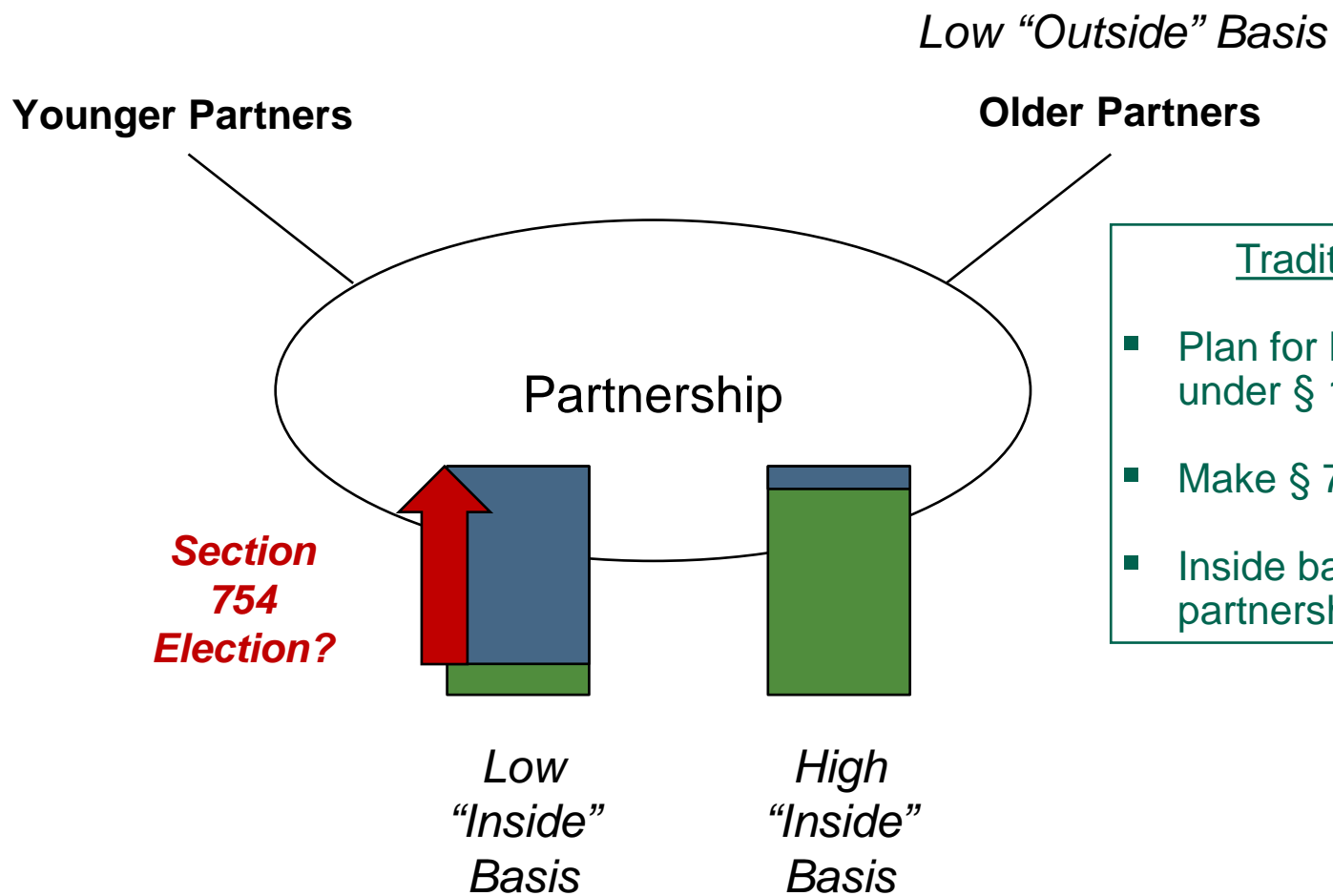




### *Limitations on the Inside Basis Adjustment On the Death of a Partner*



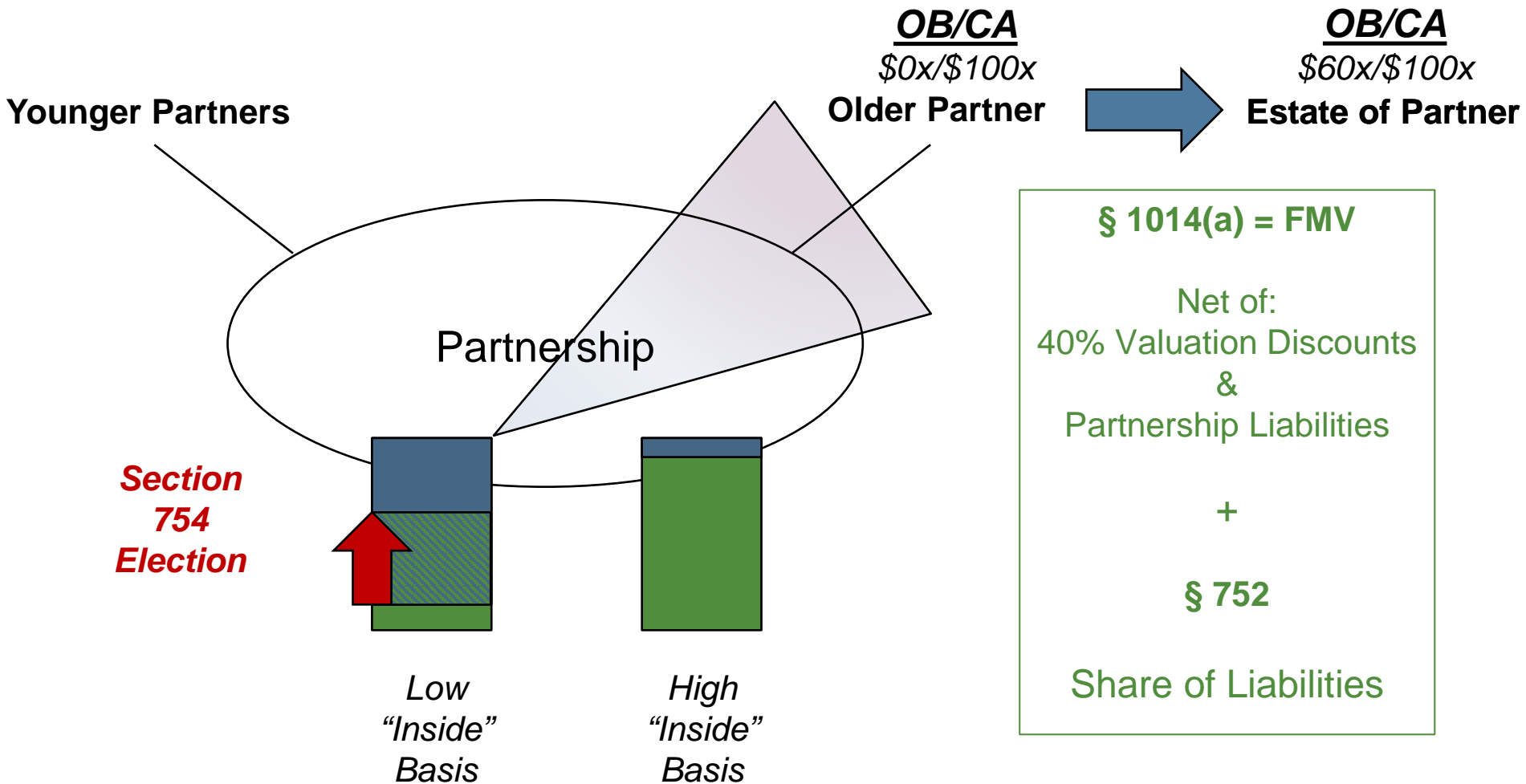
# Importance of Partnerships in Tax Basis Management



- Traditional Advice:
- Plan for basis adjustment under § 1014.
  - Make § 754 election.
  - Inside basis adjustment to partnership property.

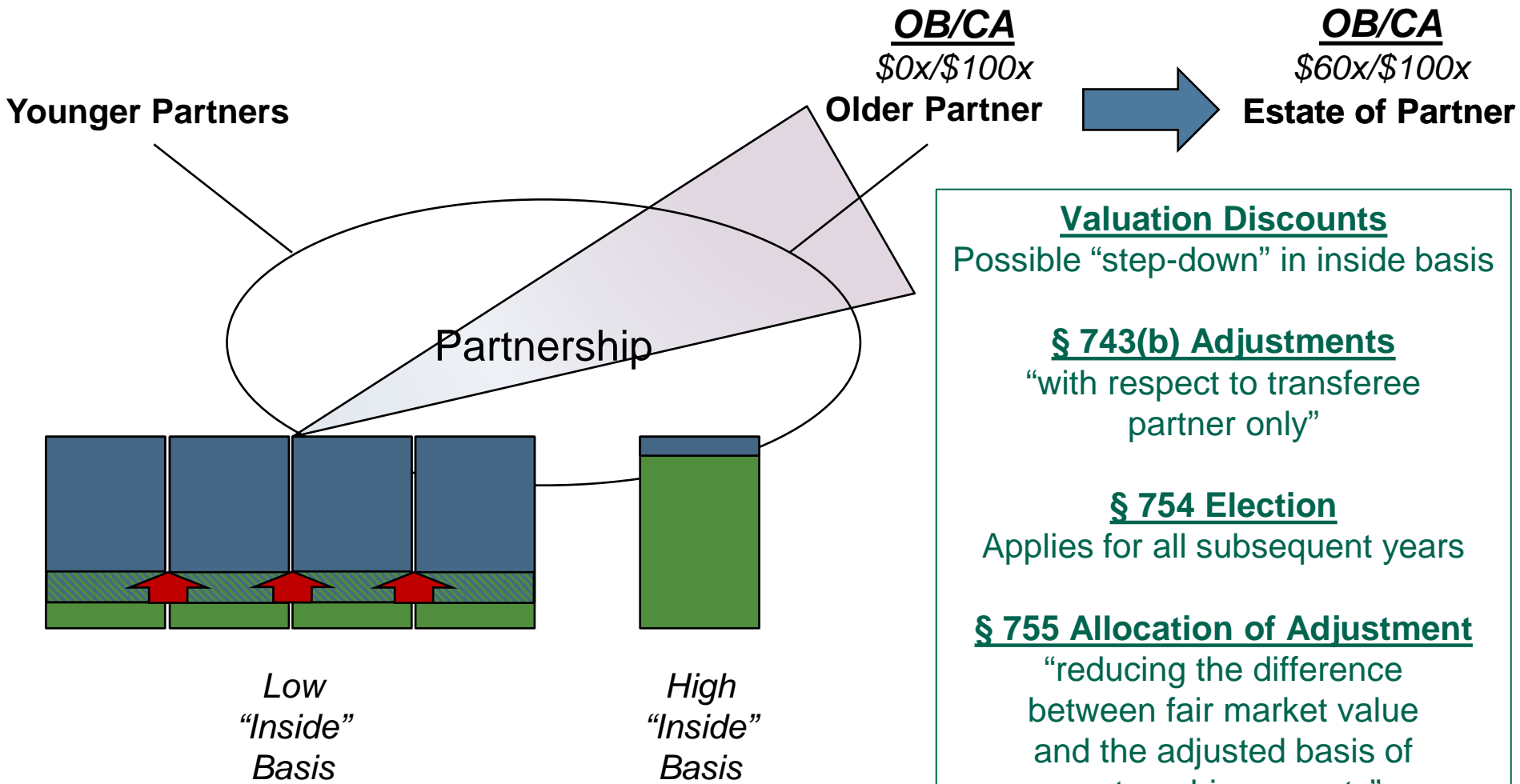


# Limits of 754 Election and Basis Adjustment at Death (§ 743)





# Other Limits of Inside Basis Adjustment under § 743



**Valuation Discounts**  
Possible "step-down" in inside basis

**§ 743(b) Adjustments**  
"with respect to transferee partner only"

**§ 754 Election**  
Applies for all subsequent years

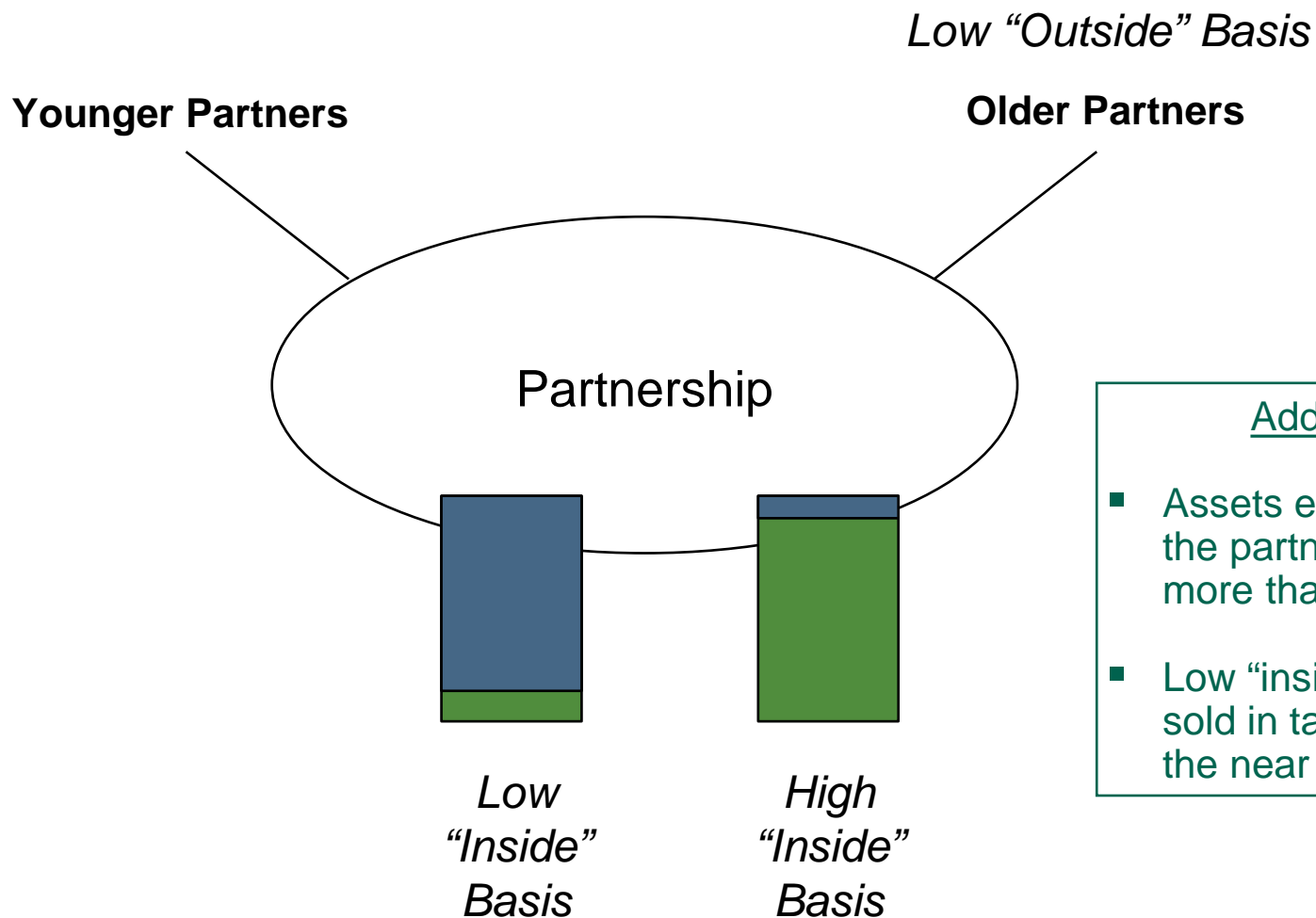
**§ 755 Allocation of Adjustment**  
"reducing the difference between fair market value and the adjusted basis of partnership property"



## *The Basics of Basis Stripping, Shifting, and Swapping*



# Importance of Partnerships in Tax Basis Management

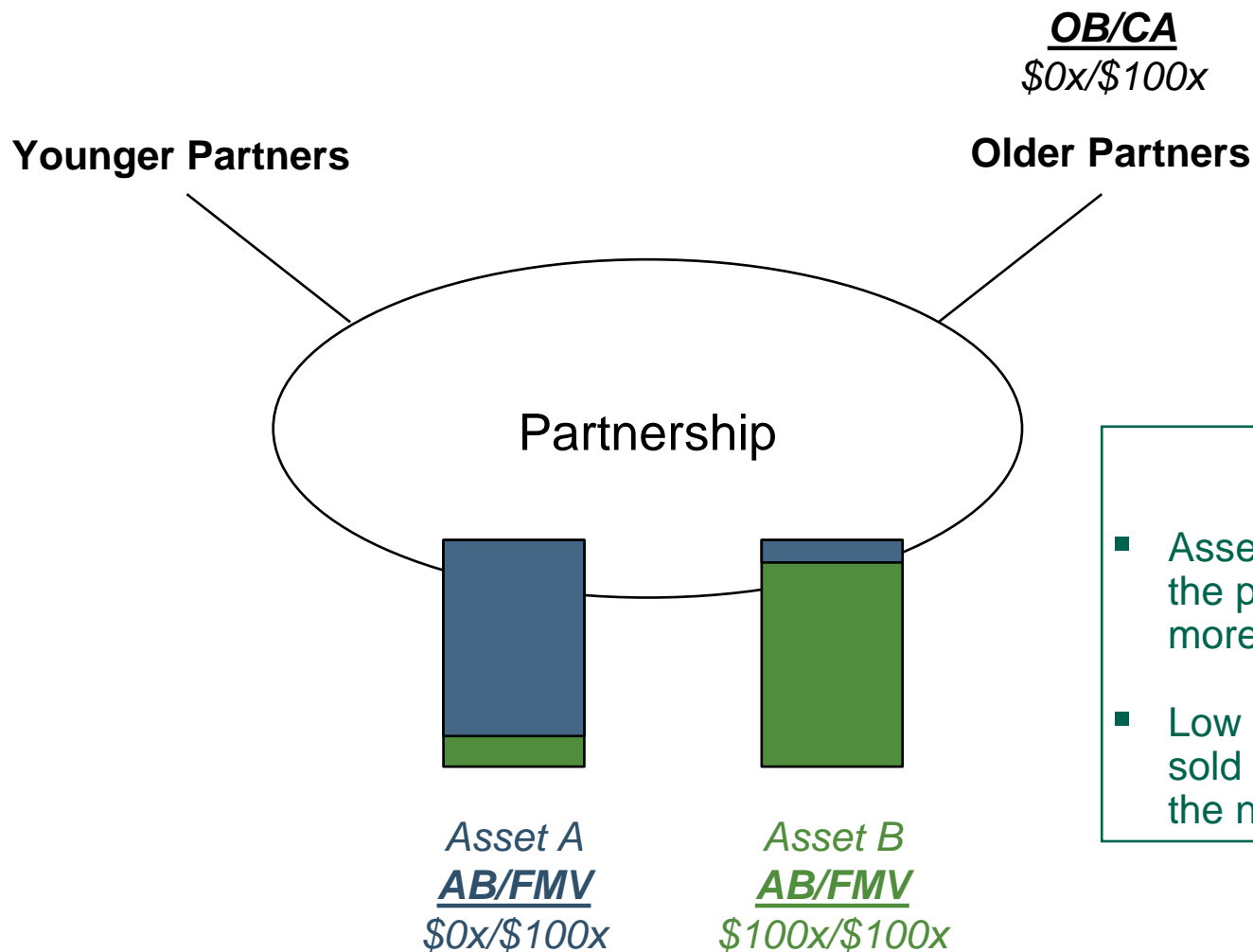


## Additional Facts:

- Assets either purchased by the partnership or contributed more than 7 years ago.
- Low "inside" basis asset to be sold in taxable exchange in the near future.



# Importance of Partnerships in Tax Basis Management

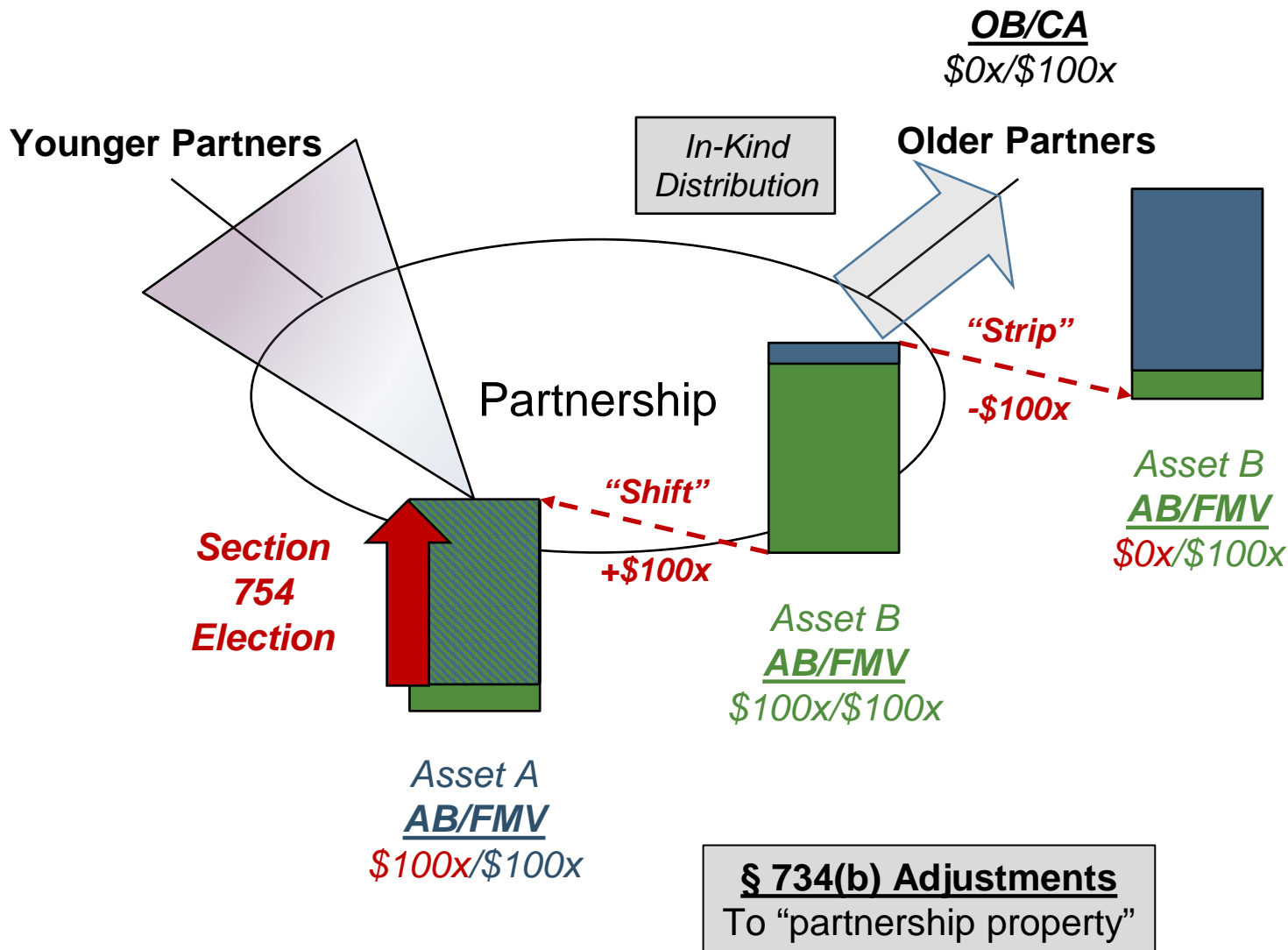


## Additional Facts:

- Assets either purchased by the partnership or contributed more than 7 years ago.
- Low “inside” basis asset to be sold in taxable exchange in the near future.



# Importance of Partnerships in Tax Basis Management







# Inside Basis Adjustments: Current vs. Liquidating Distributions

## Current Distributions

- Only gain (not loss) can be recognized by distributee.
- Basis of in-kind property distributed to a partner is the *lesser* of:
  - ◆ Inside basis of the property; and
  - ◆ Outside basis of distributee partner.
- When outside basis is less than inside basis, basis of property is reduced or lost to the partnership.
- Only *increases* in partnership property under § 734(b) can occur.

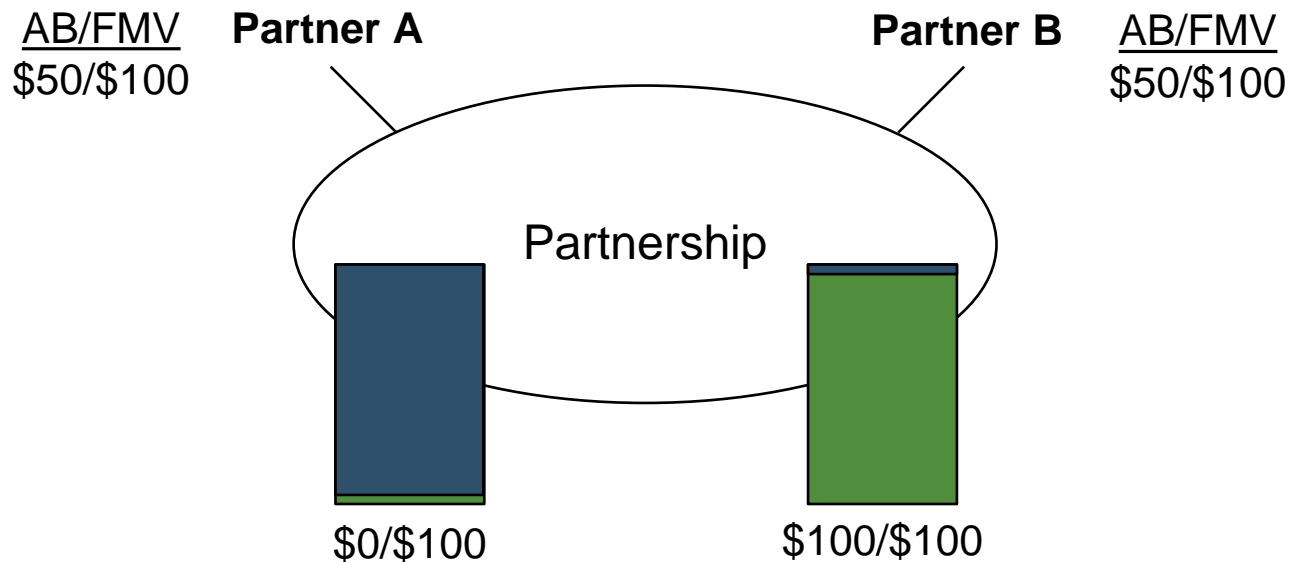
## Liquidating Distributions

- Gain *and* loss can be recognized by distributee.
- Under § 734(b), the inside basis adjustment can:
  - ◆ Increase the basis of partnership property (for gain); or
  - ◆ Decrease the basis of partnership property (for loss).
- Basis of in-kind property distributed to a partner will be the outside basis of the distributee partner.
- Distributions can result in an increase *and* decrease in basis of the property. The inside basis adjustment can:
  - ◆ Increase the basis of partnership property (for a reduction of basis in the distributed property)
  - ◆ Decrease the basis of partnership property (for an increase of basis in the distributed property)
- Mandatory inside basis adjustment (reduction of basis to partnership property):
  - ◆ Partner recognizes a loss of more than \$250,000; or
  - ◆ Basis of liquidated property is increased by more than \$250,000.

*Importance  
of  
Partnership Divisions*

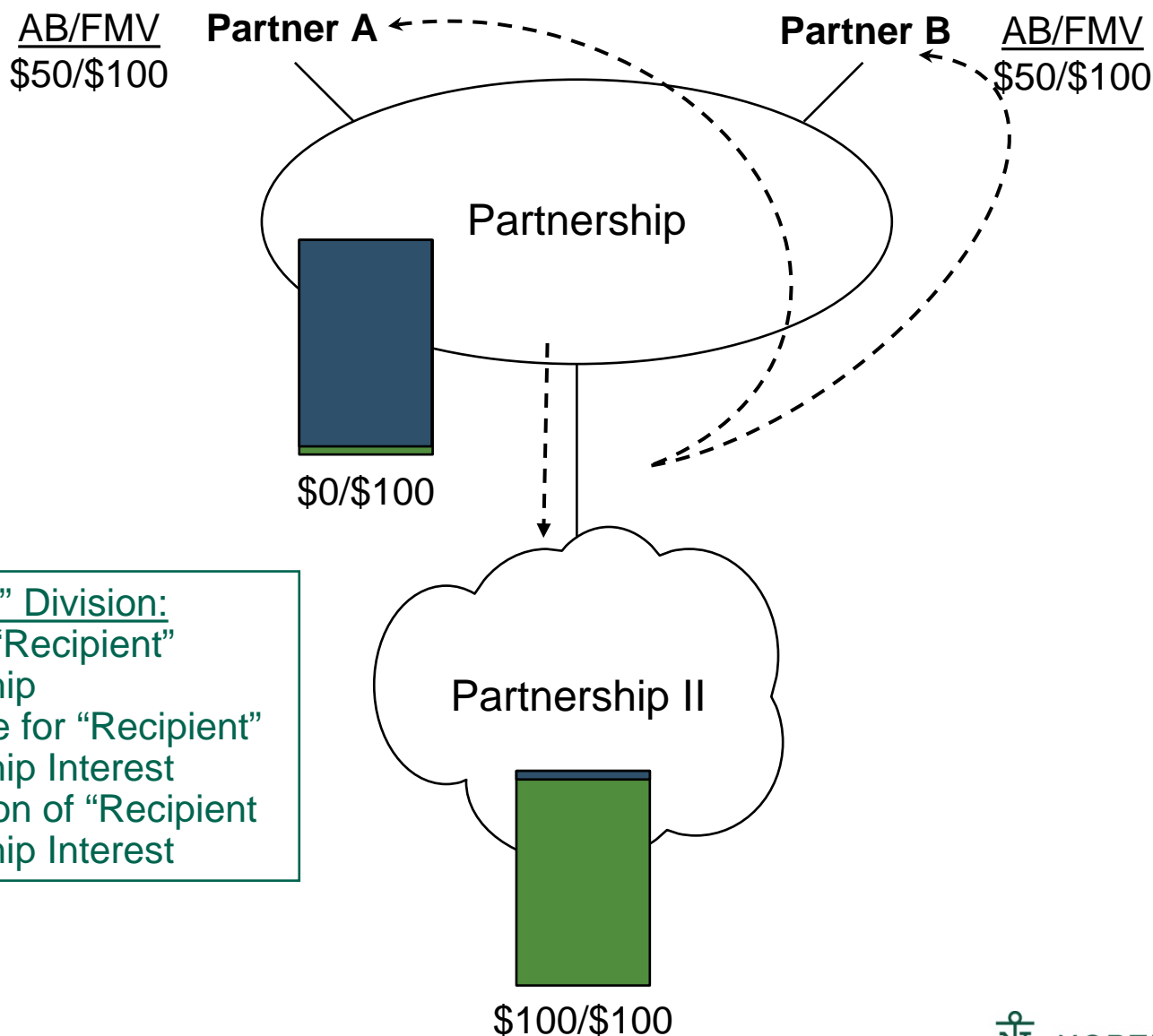


# Unitary Basis Works Against Efficient Tax Basis Management





# Partnership Division Can Solve Unitary Basis Problem

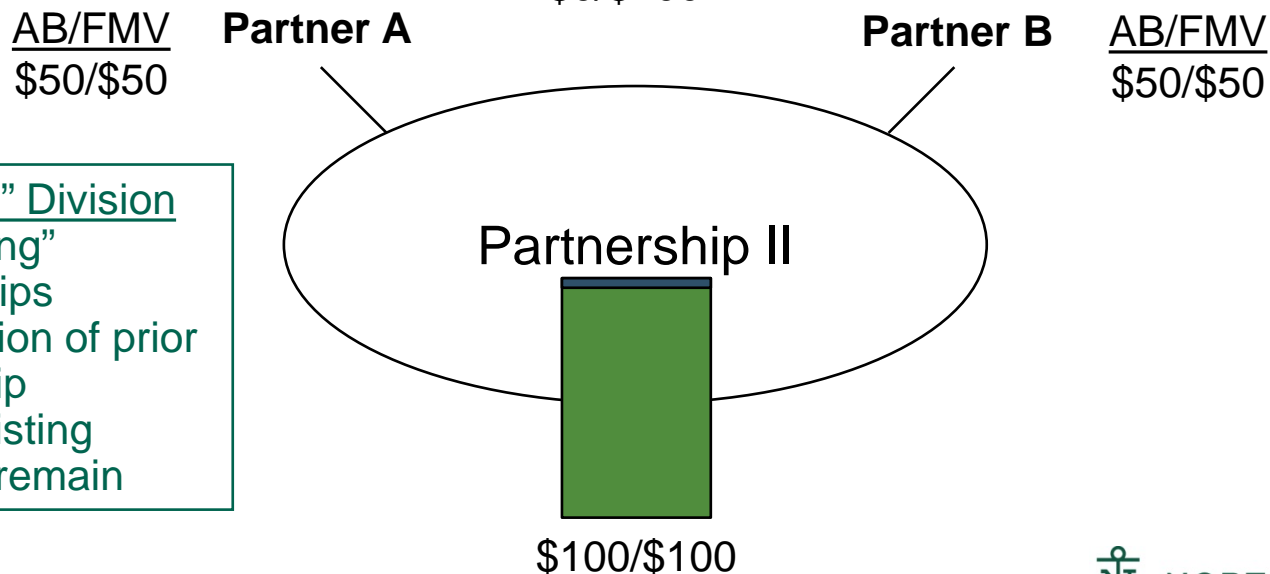
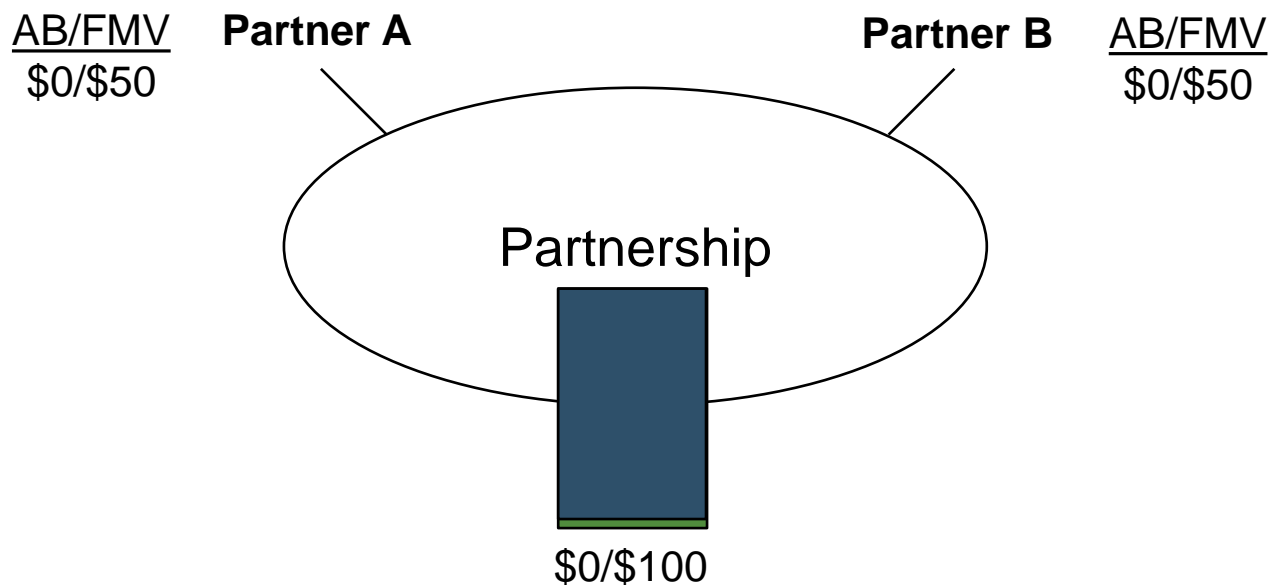


## “Assets-Over” Division:

1. Asset to “Recipient” Partnership
2. Exchange for “Recipient” Partnership Interest
3. Distribution of “Recipient” Partnership Interest



# Partnership Division Can Create High & Low Outside Basis



## "Vertical Slice" Division

1. 2 "Resulting" Partnerships
2. Continuation of prior partnership
3. All pre-existing elections remain



# *Setting the Stage for Basis Stripping, Shifting & Swapping (Think Evolution)*



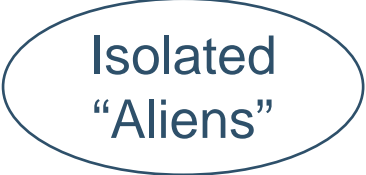
# FLP Evolution: Ancient Alien Theory

No § 754 Election



*7 Years: A Billion Years in Tax Time*

No § 754 Election



**§ 754 Election**



# Ancient Alien Theory: 3 Lines of Evolution?

“Mother Ship”  
All Asset (Ex. Assets)  
Partnership

“Mother Ship”  
Section 751 “Hot” Assets  
Partnership

“Mother Ship”  
Marketable Securities  
Partnership

**No § 754  
Election**

***7 Years: A Billion Years in Tax Time***

“Mother Ship”  
All Asset (Ex. Assets)  
Partnership

“Mother Ship”  
Section 751 “Hot” Assets  
Partnership

“Mother Ship”  
Marketable Securities  
Partnership

**§ 754  
Election**

Isolated  
“Aliens”

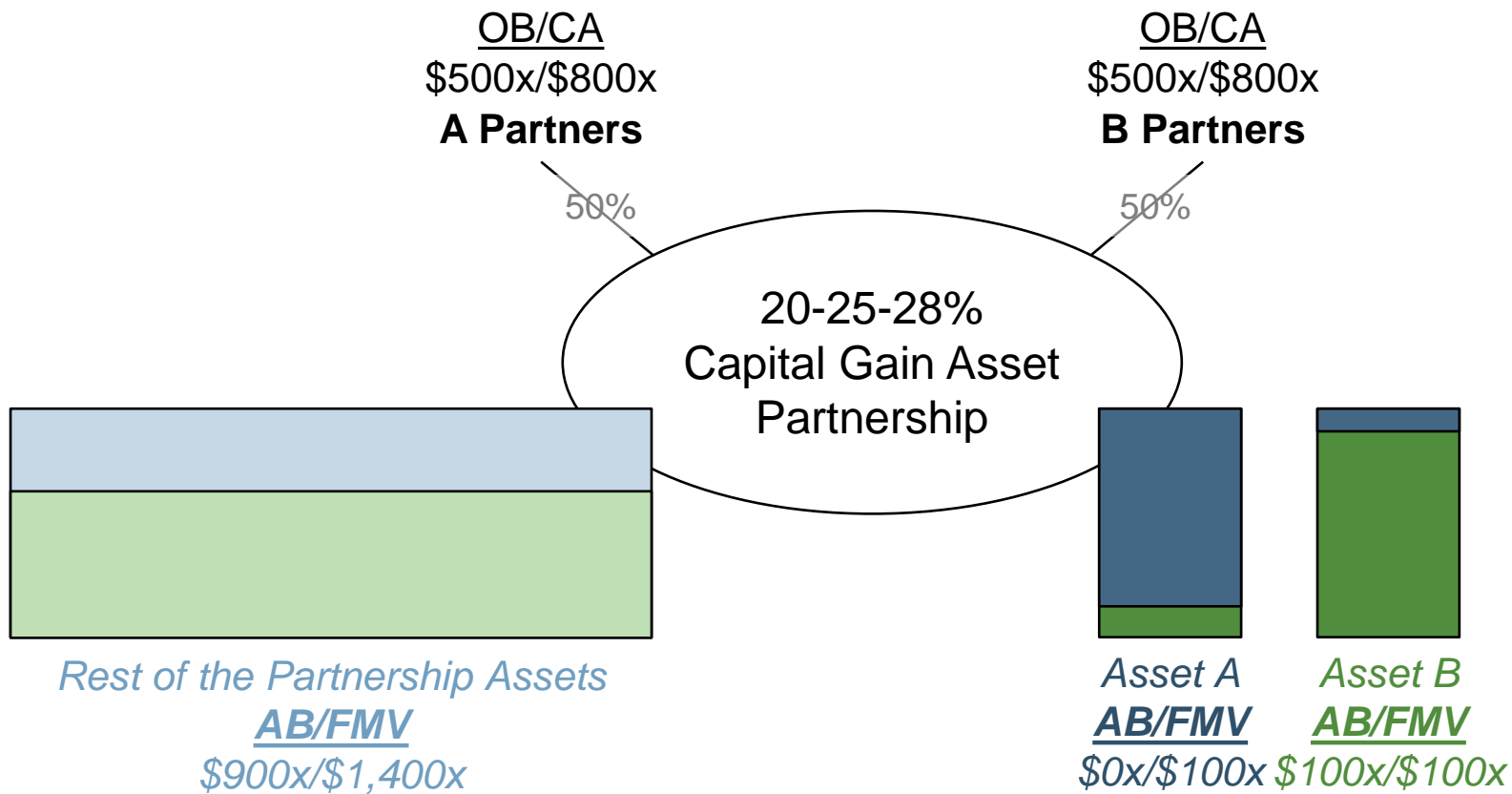
Isolated  
“Hot” Assets

Isolated  
Securities



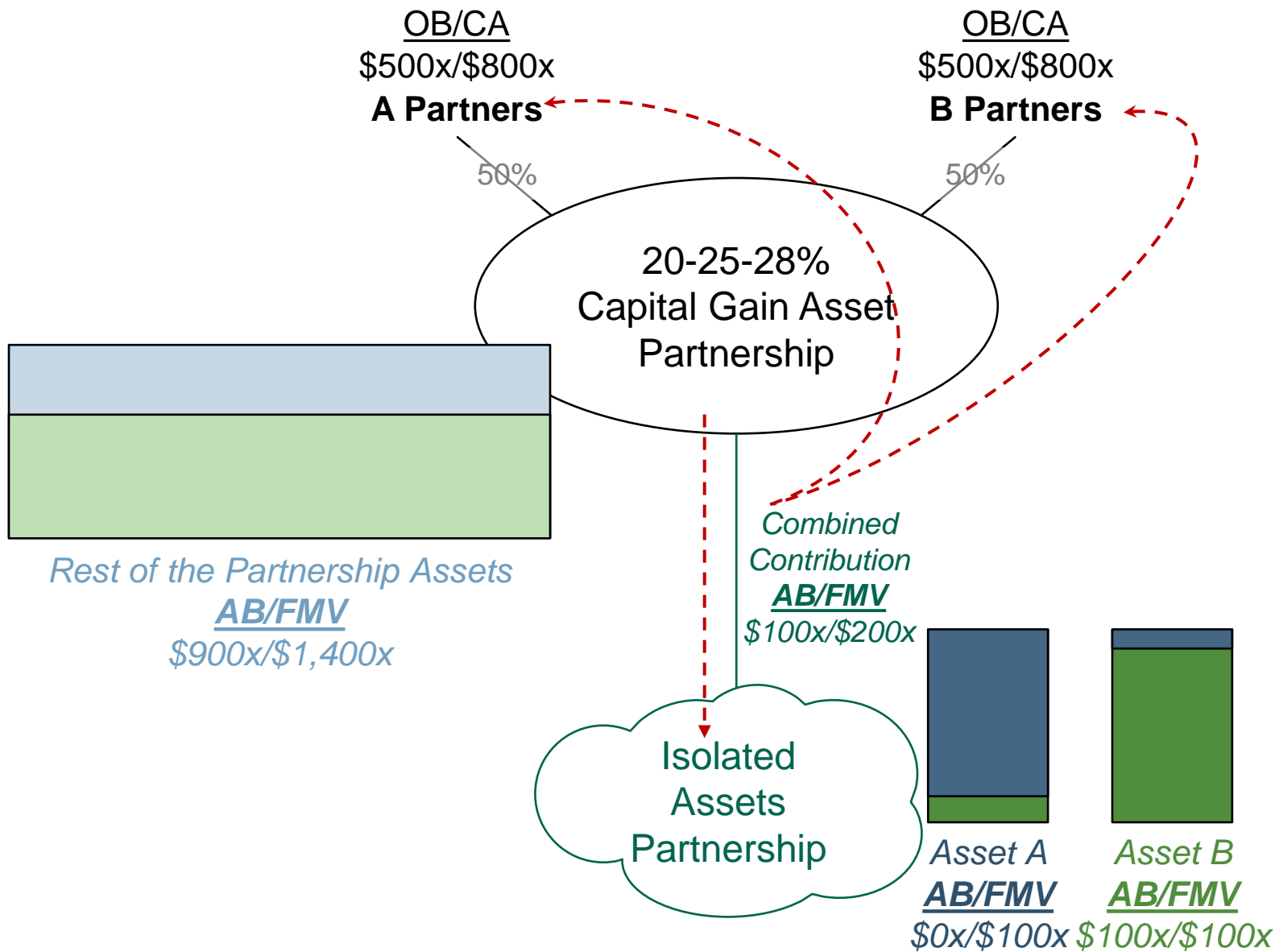


# Mother Ship, Isolated Alien Example



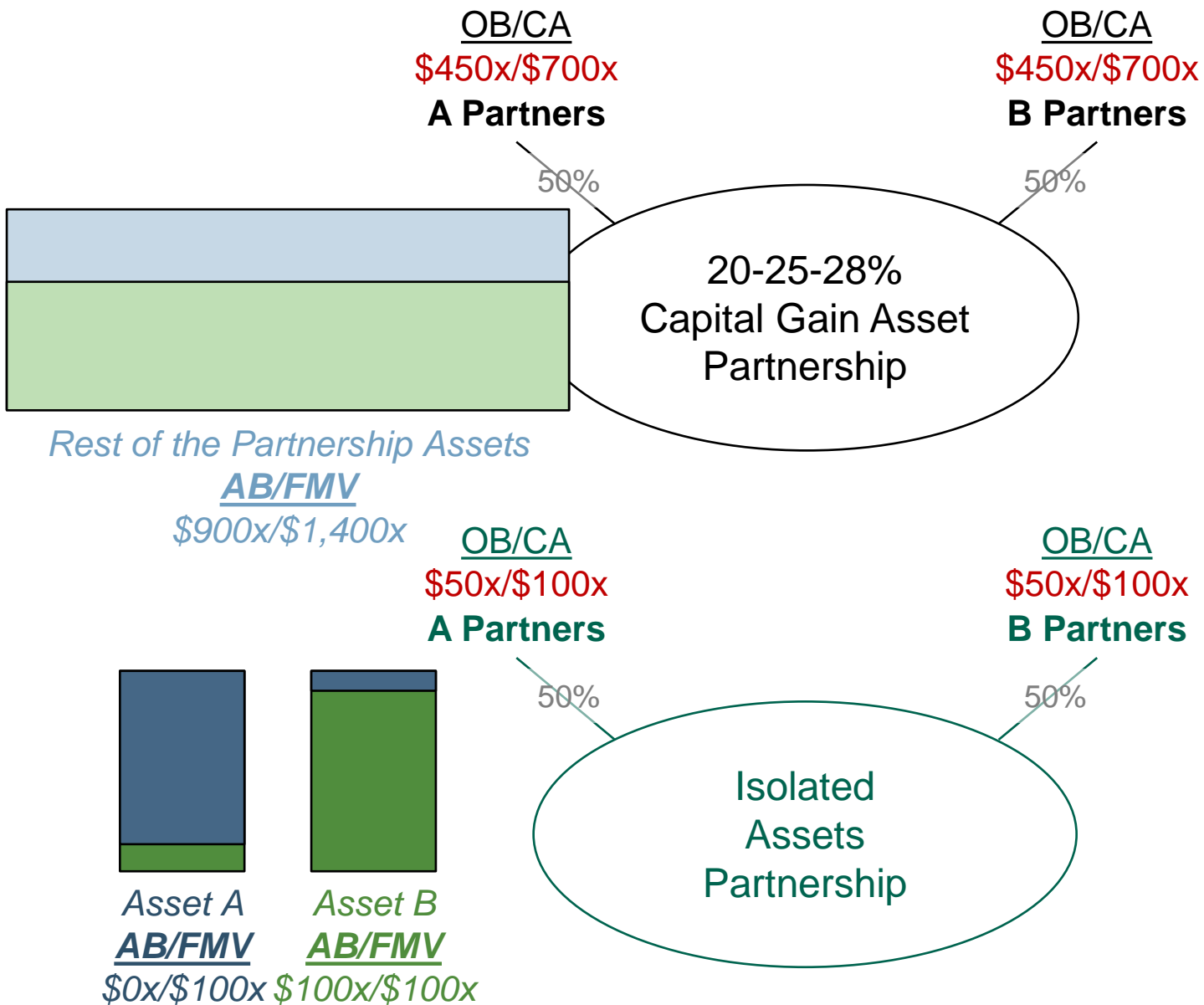


# Mother Ship, Isolated Alien Example



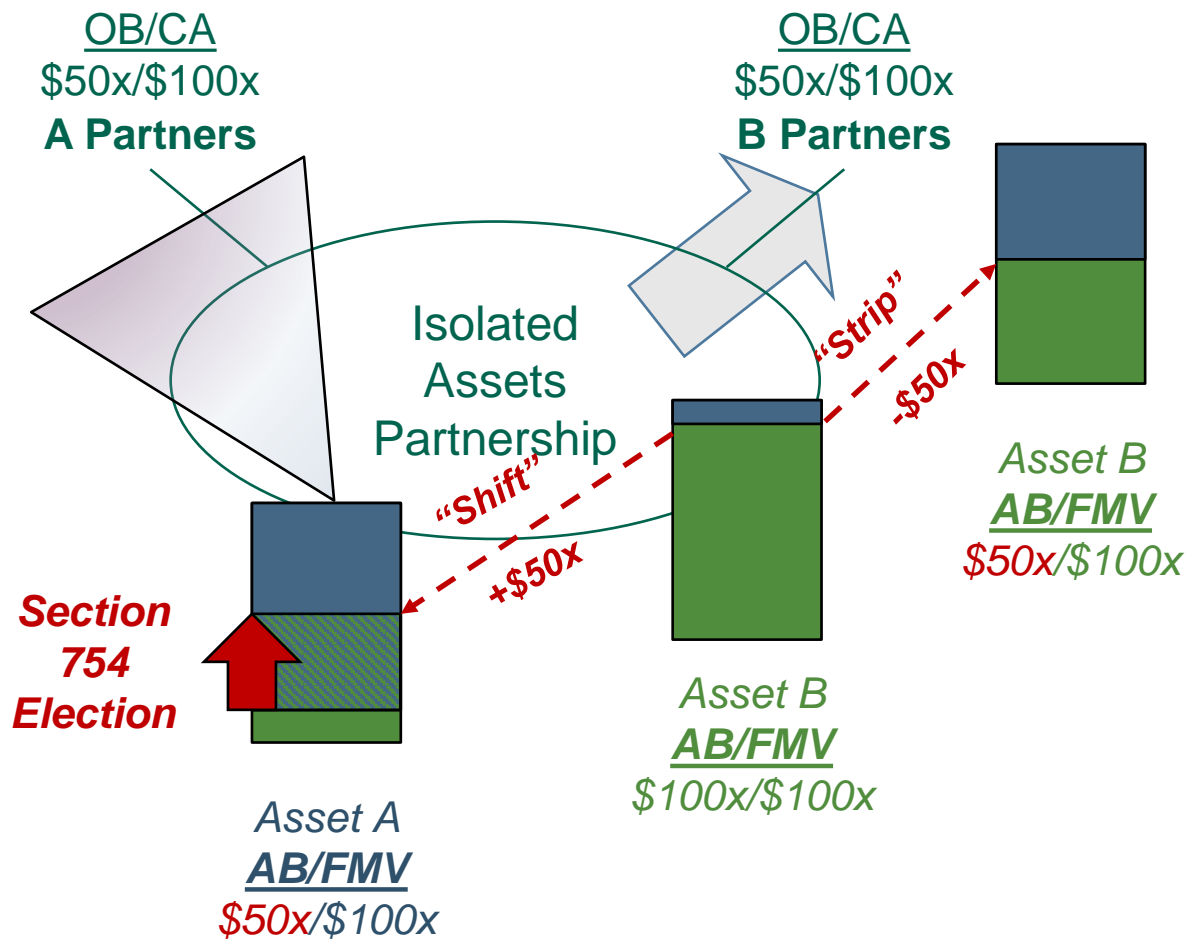


# Mother Ship, Isolated Alien Example





# Mother Ship, Isolated Alien Example





# *Creating, Stripping, and Shifting Basis (Even with Marketable Securities)*



# “Old and Cold” Investment Partnership

G2 Partners

G1 Partners



## Investment Partnership under § 731(c)(3)(C) of the Code:

- Never engaged in a trade business.
- “Substantially all” (e.g., 90%) assets are (have been):
  - Money
  - Stock in a corporation (including pre-IPO shares)
  - Notes, bonds, debentures, or other debt
  - Derivative financial instruments (e.g., options, futures, short positions)

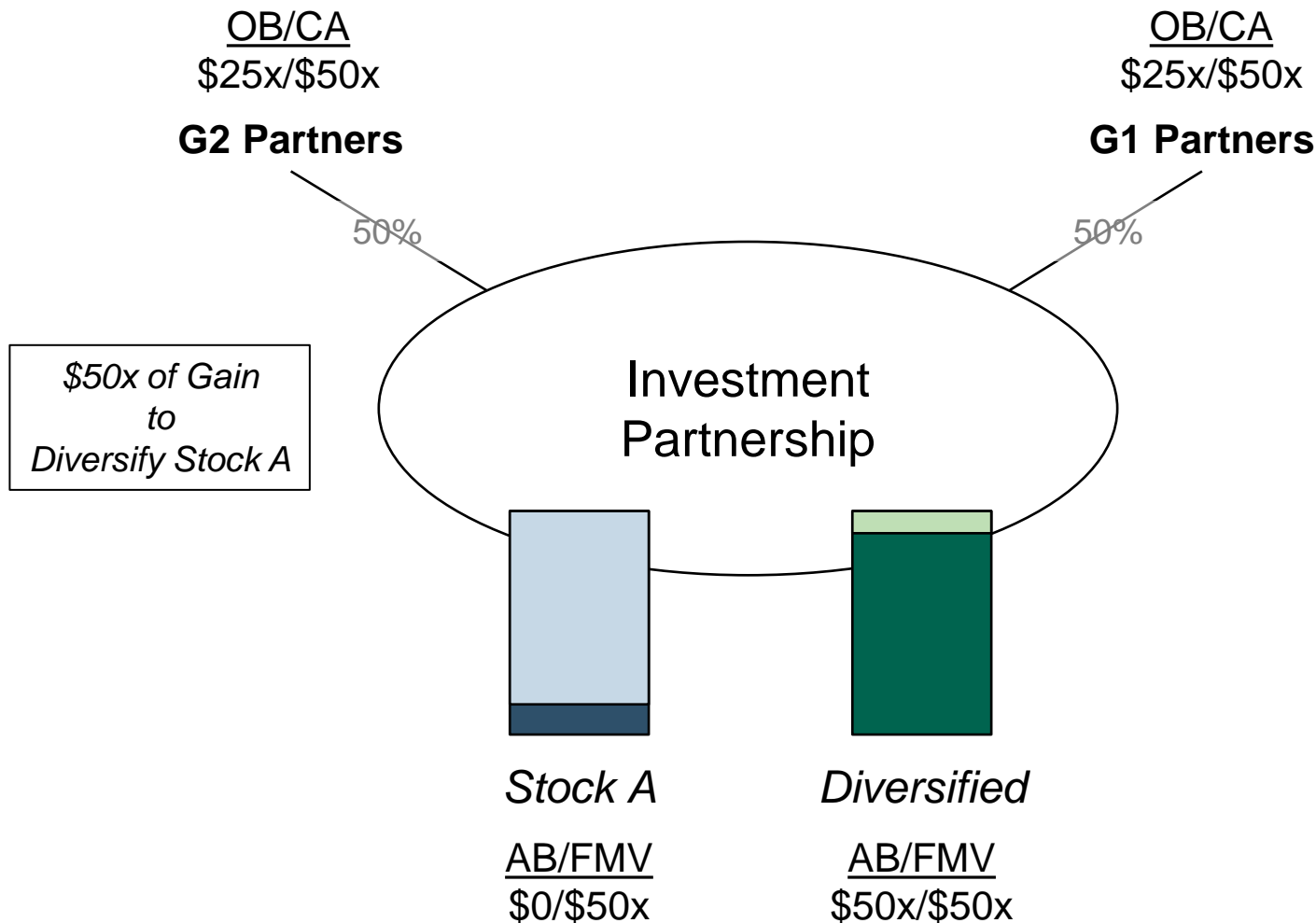
- All distributions to “eligible partners.”

## “Mixing Bowl” and “Disguised Sale” Rules Do Not Apply

- All assets purchased by partnership or contributed more than 7-years ago

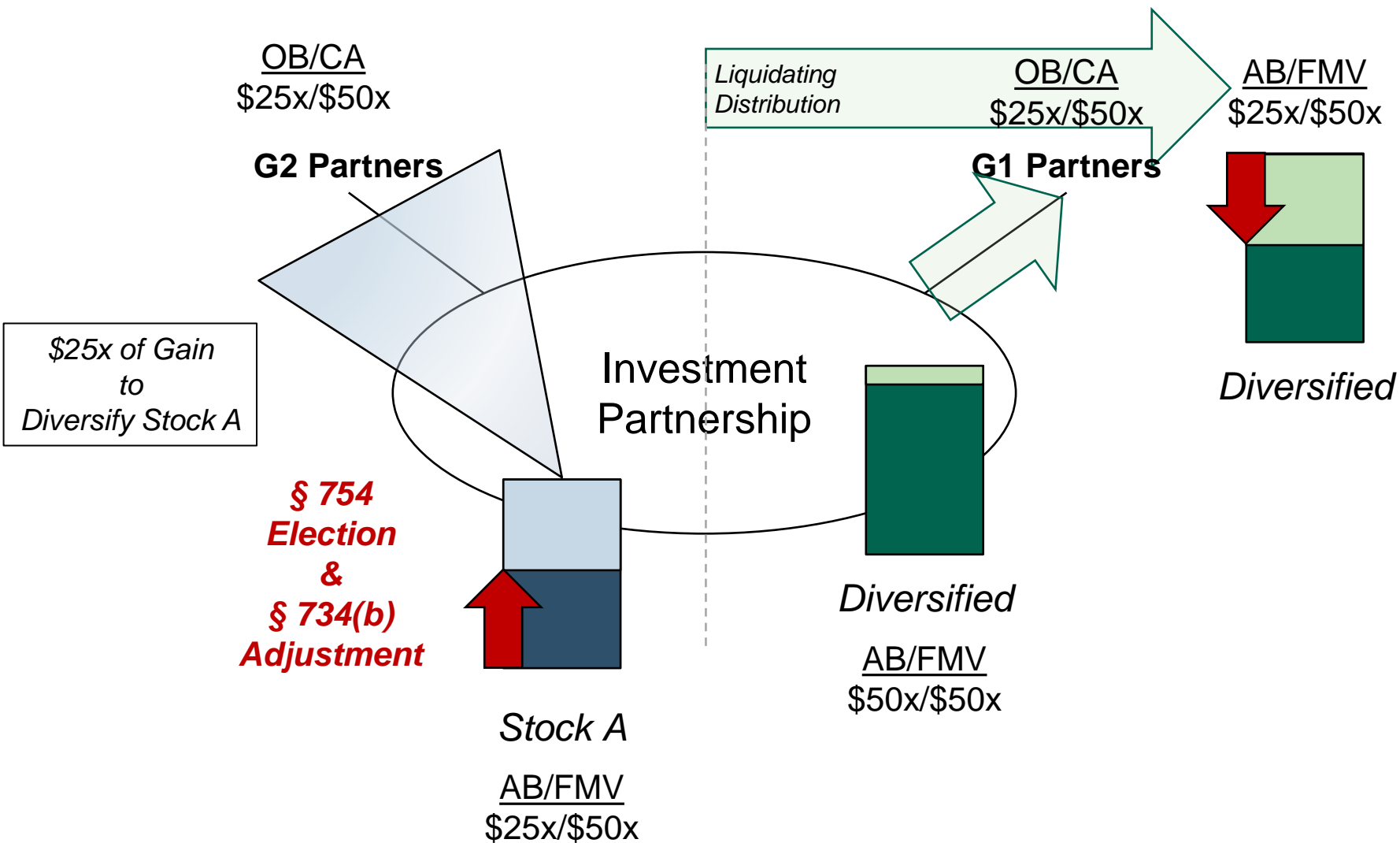


# Basis Shift From Diversified to Concentrated





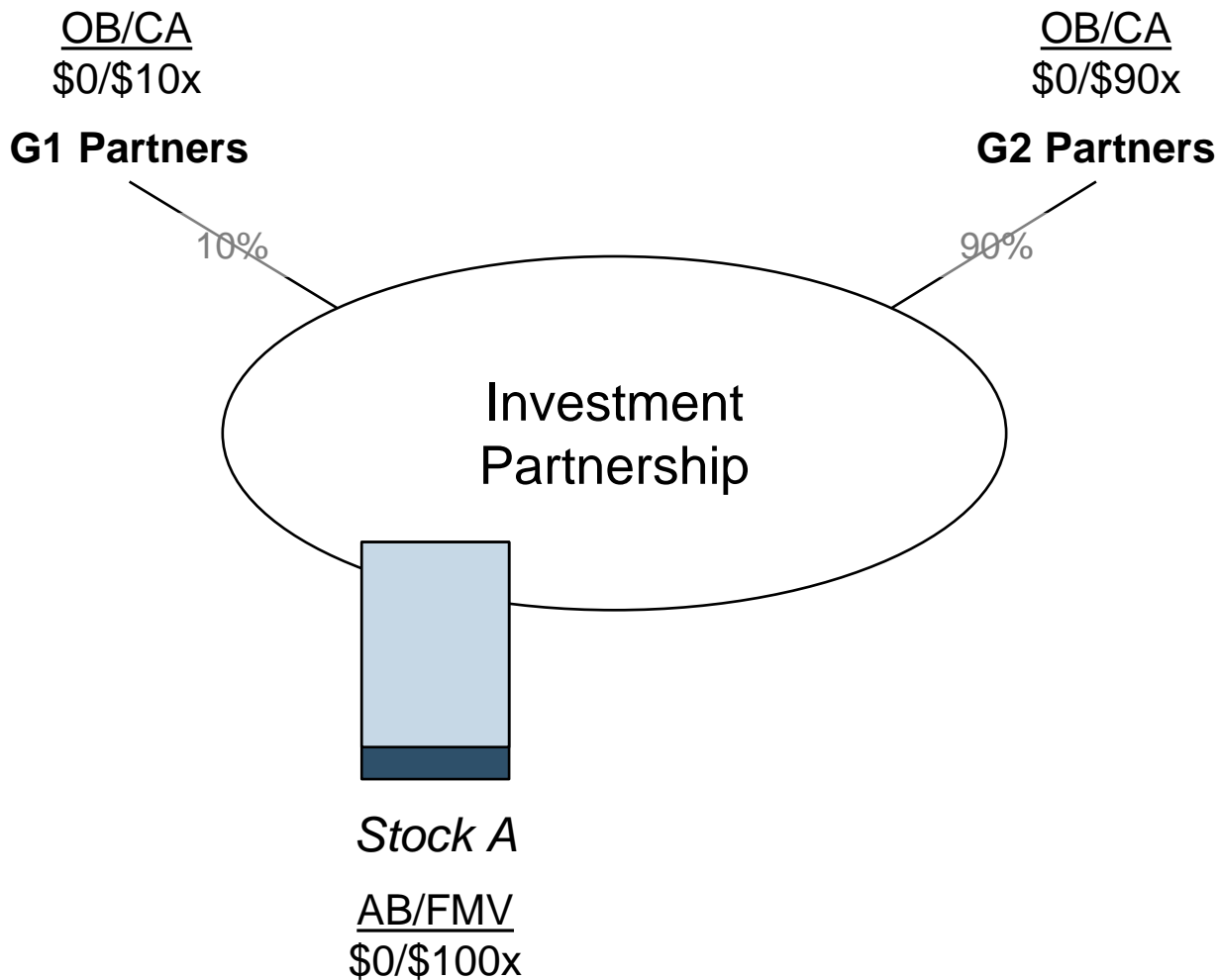
# Basis Shift From Diversified to Concentrated





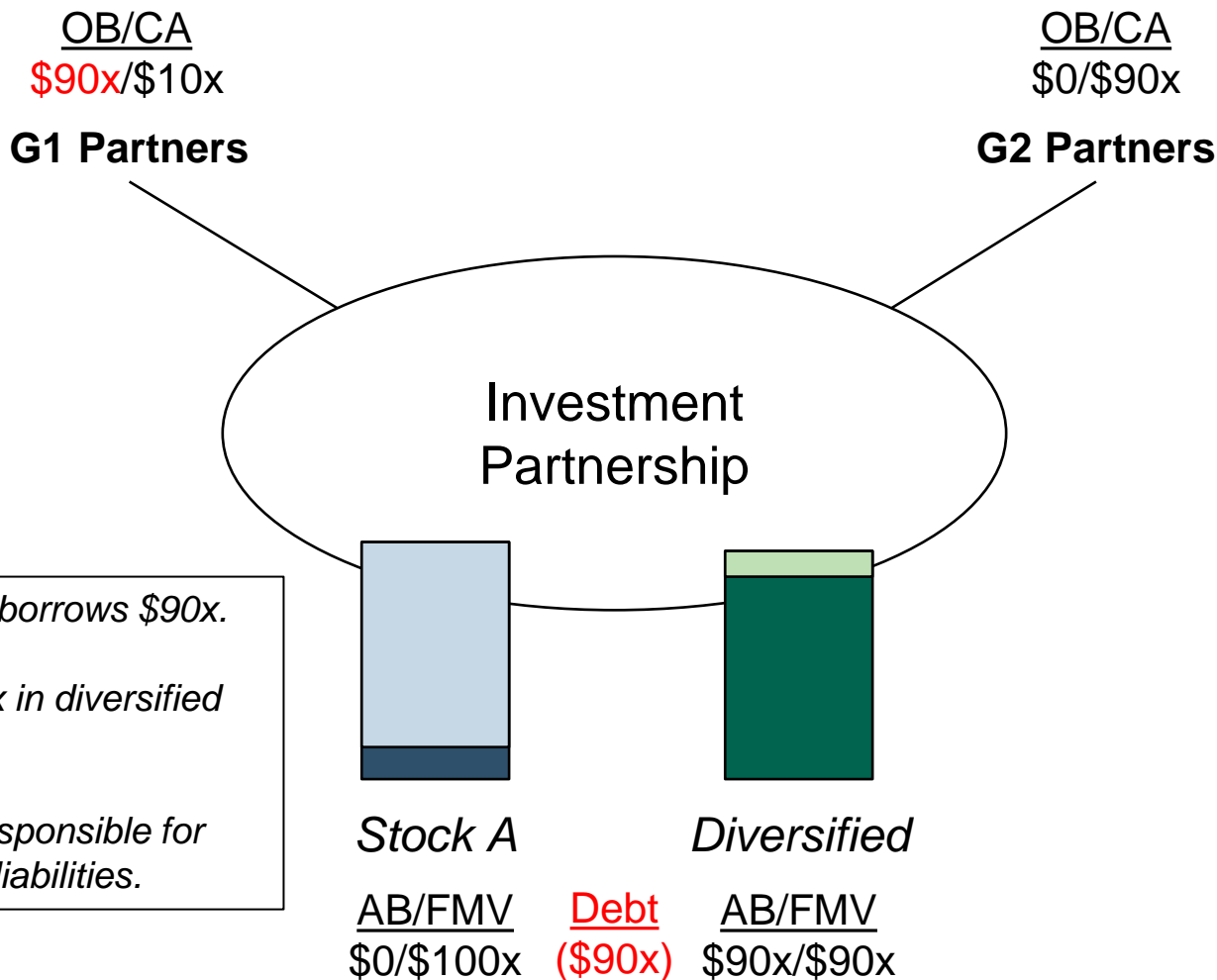


# Debt to Exchange Concentrated for Diversified Position





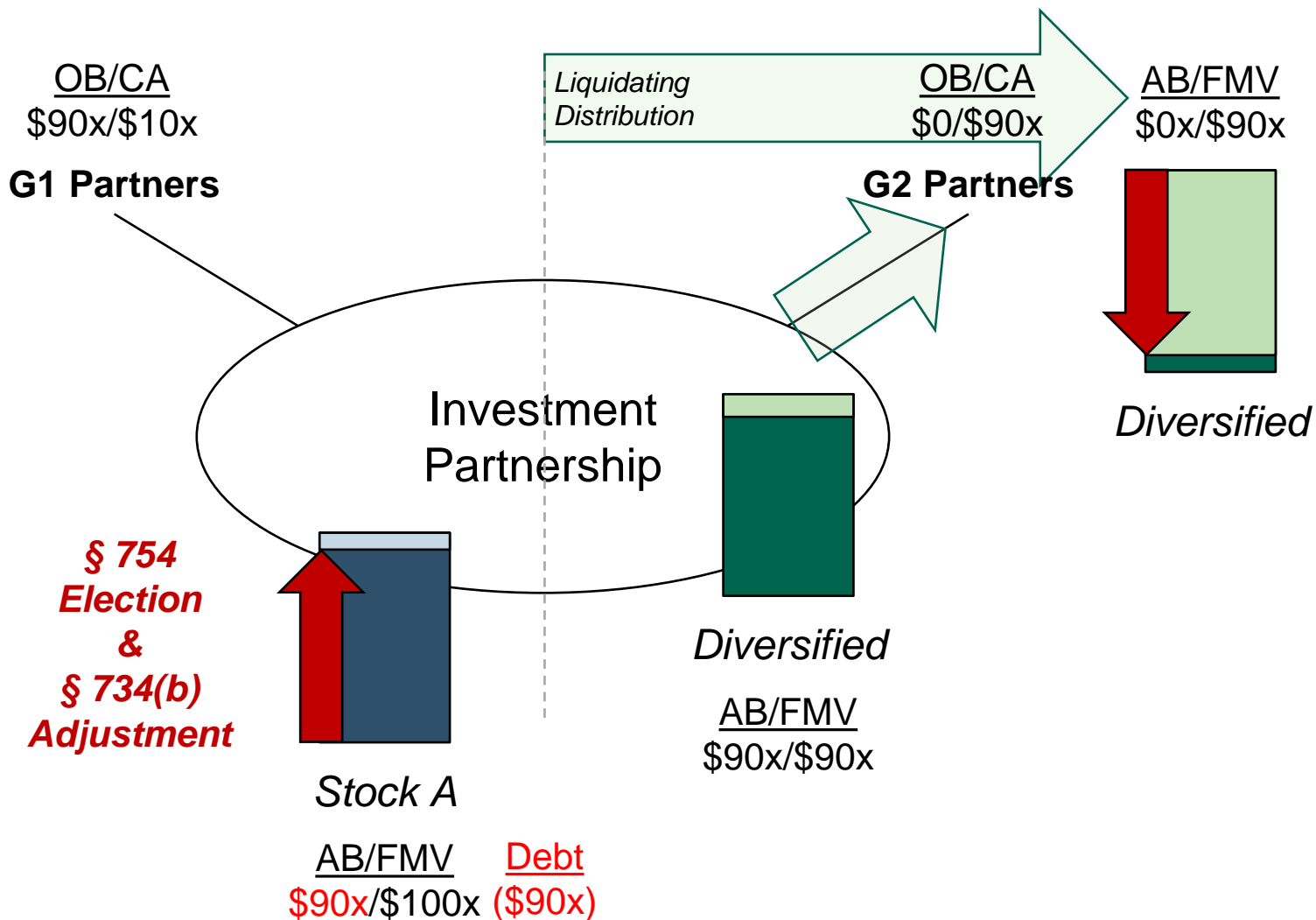
# Debt to Exchange Concentrated for Diversified Position



1. Partnership borrows \$90x.
2. Invests \$90x in diversified portfolio.
3. G1 solely responsible for partnership liabilities.



# Debt to Exchange Concentrated for Diversified Position

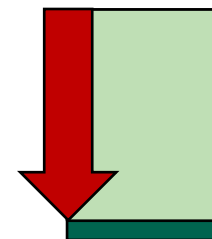
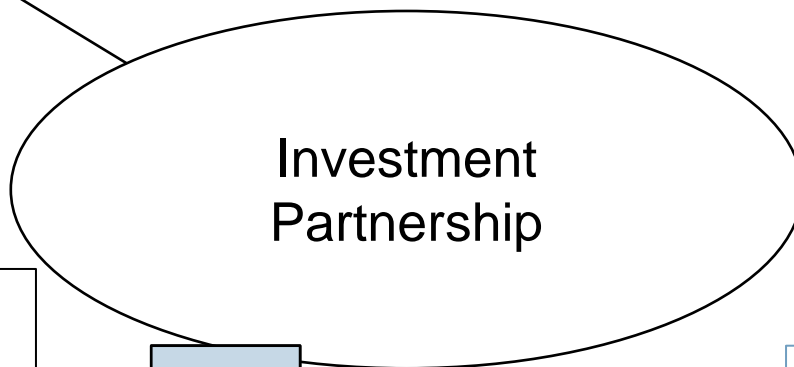




# Debt to Exchange Concentrated for Diversified Position

OB/CA  
~~\$9x/\$10x~~  
**G1 Partners**

AB/FMV  
\$0x/\$90x  
**Former G2 Partners**



*Diversified*

1. Sells 90x of Stock A (\$81x of AB).
2. Recognizes \$9x of gain (+9x OB of G1=\$99x).
3. Repays \$90x to lender (-\$90x OB of G1=\$9x).

**Stock A**  
AB/FMV  
~~\$9x/\$10x~~

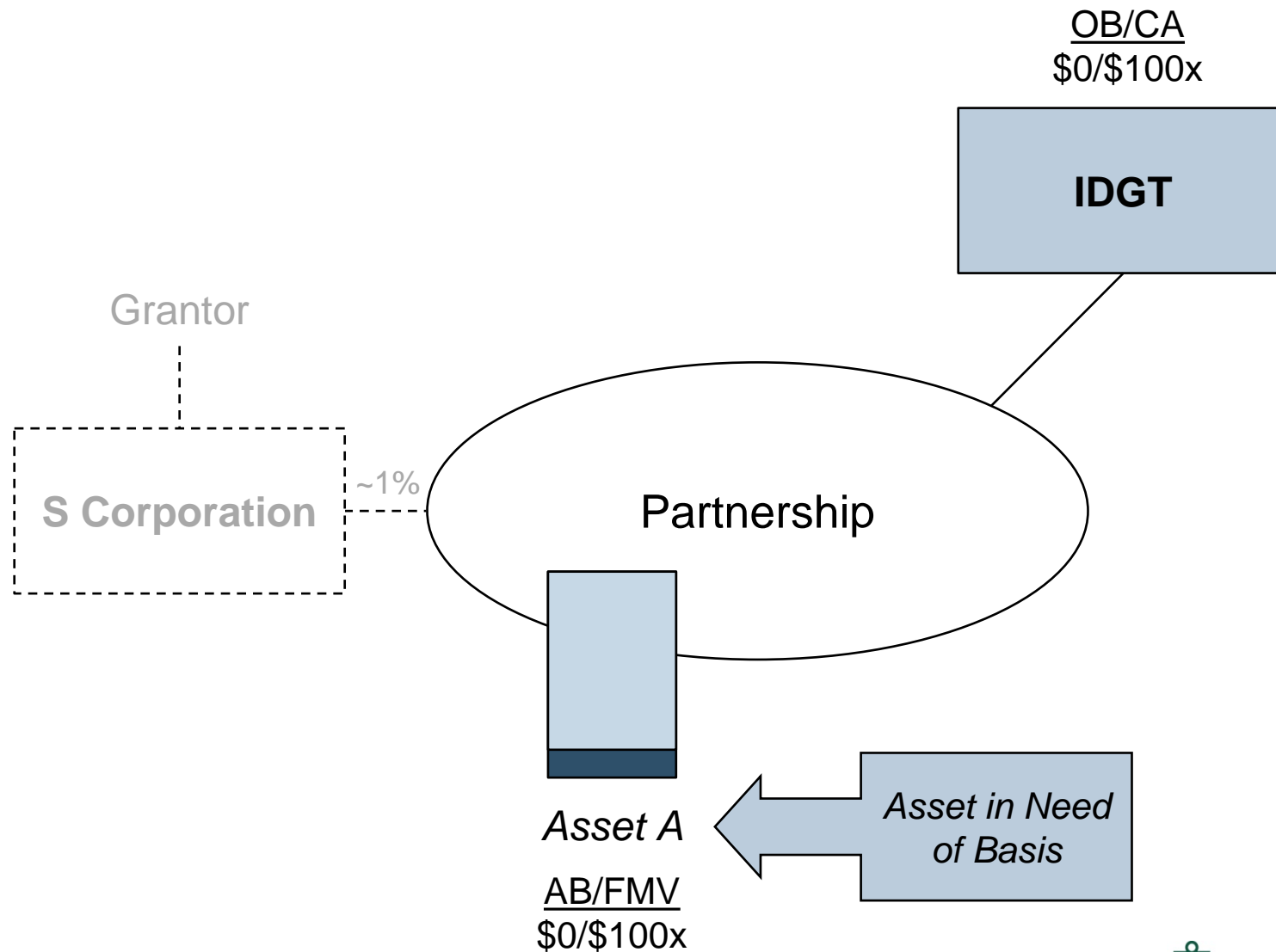
Isn't this just an exchange fund?  
Can this be used with tangible personal property in lieu of a "like-kind" exchange?



## *Basis Shifting With Grantors And Grantor Trusts*

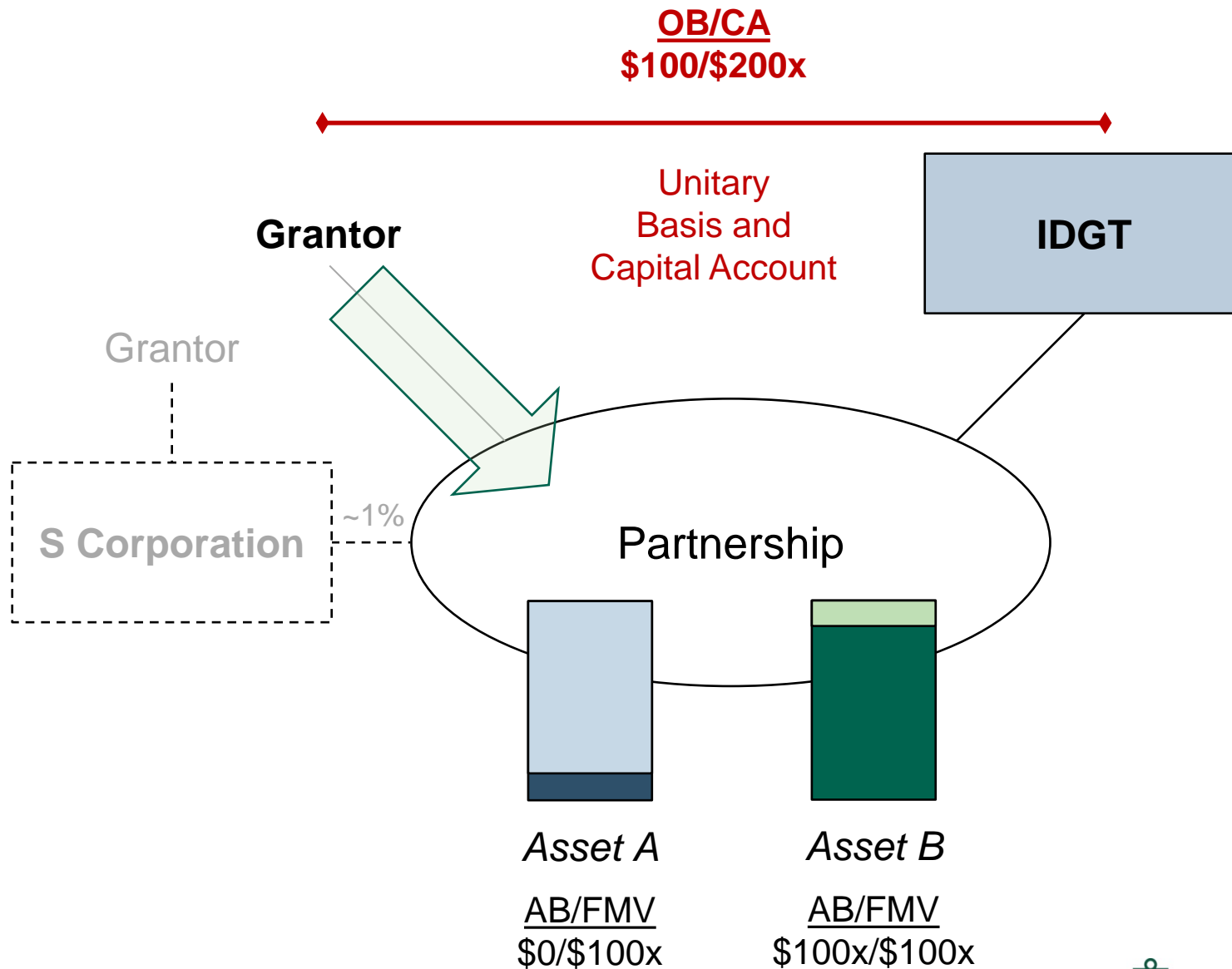


# Grantors, Grantor Trusts, and Partnerships



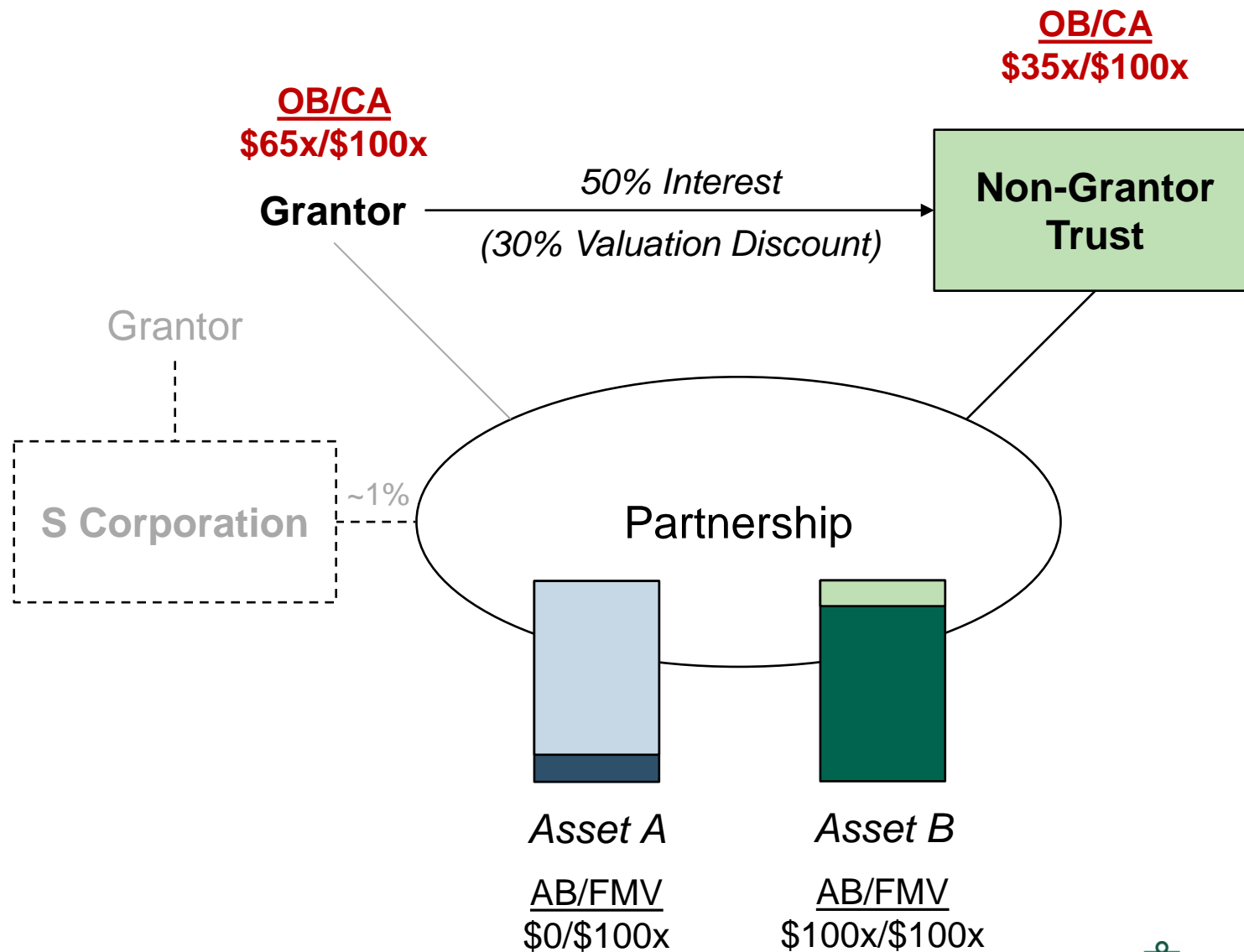


# Grantors, Grantor Trusts, and Partnerships





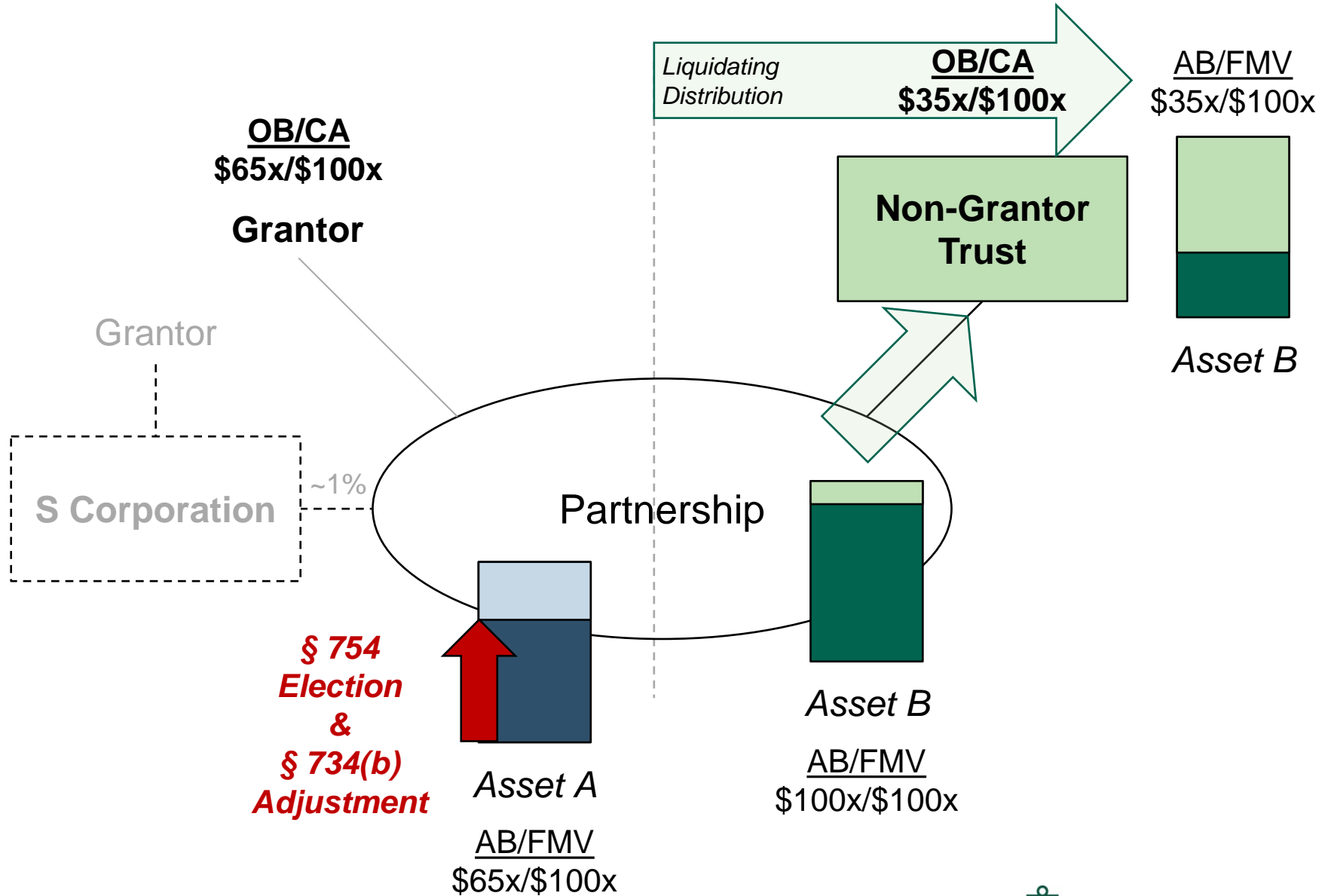
# Loss of Grantor Trust Status Is a Deemed Transfer





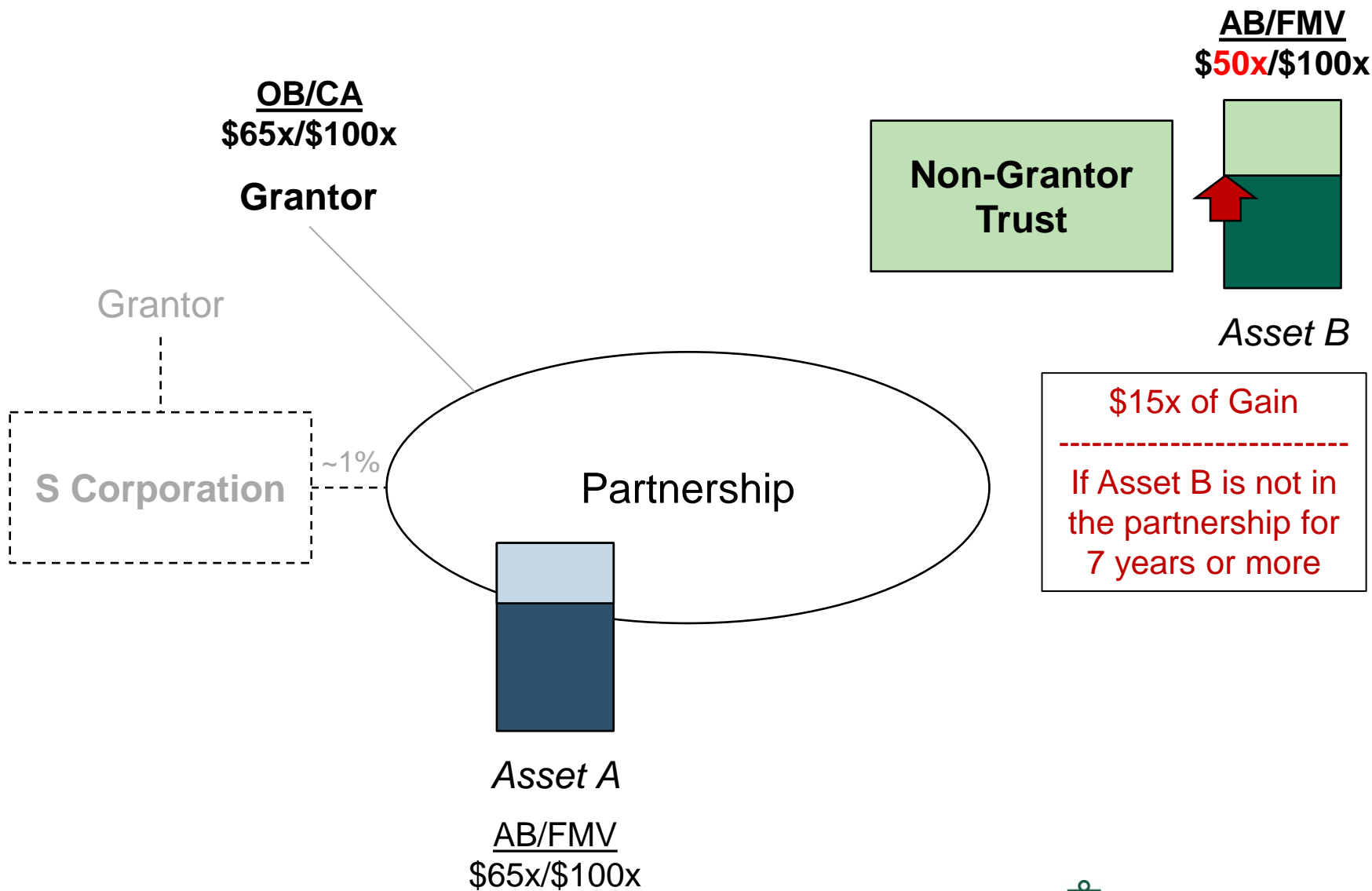


# Grantors, Non-Grantor Trusts, and Partnerships



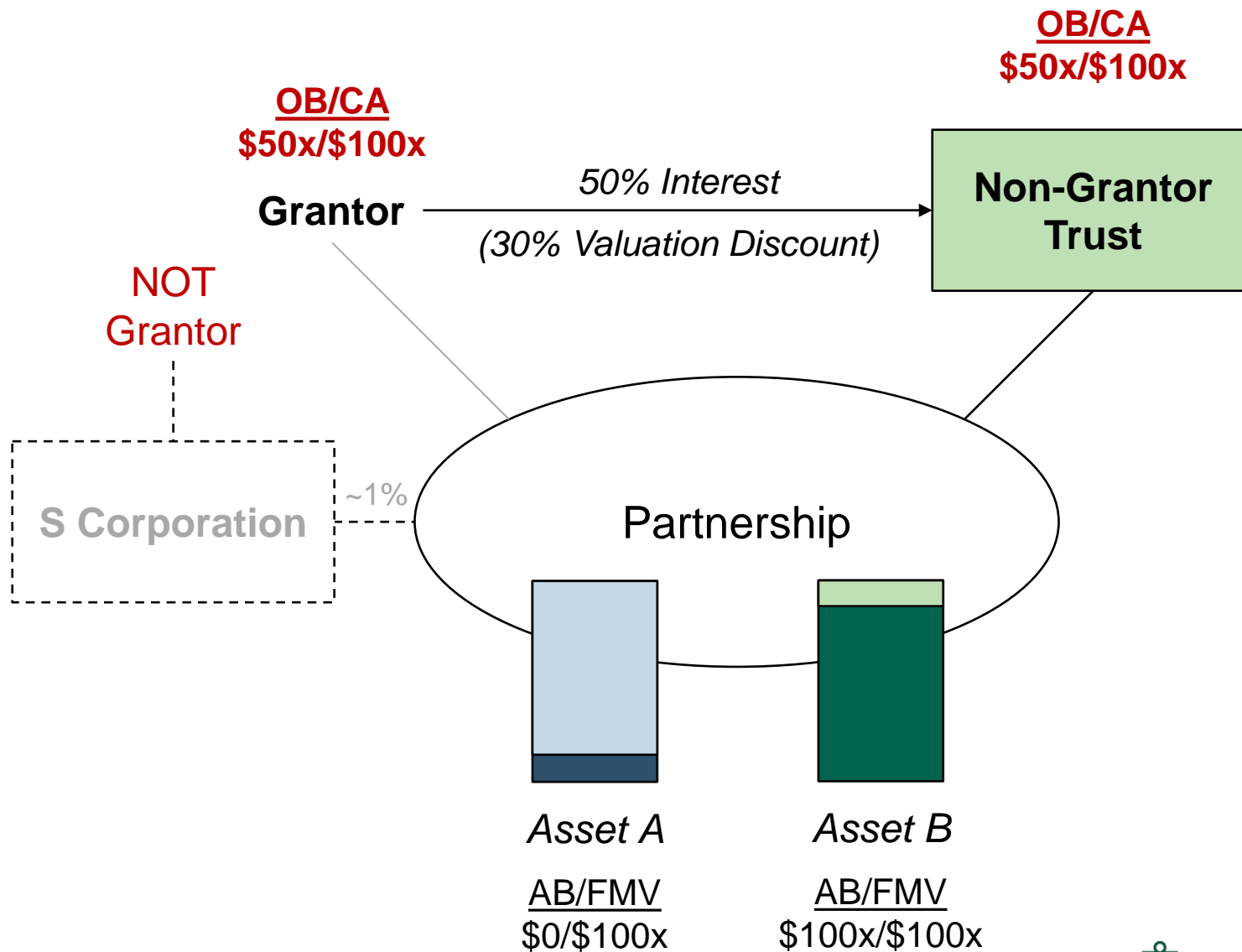


# Possible "Mixing Bowl" Complications



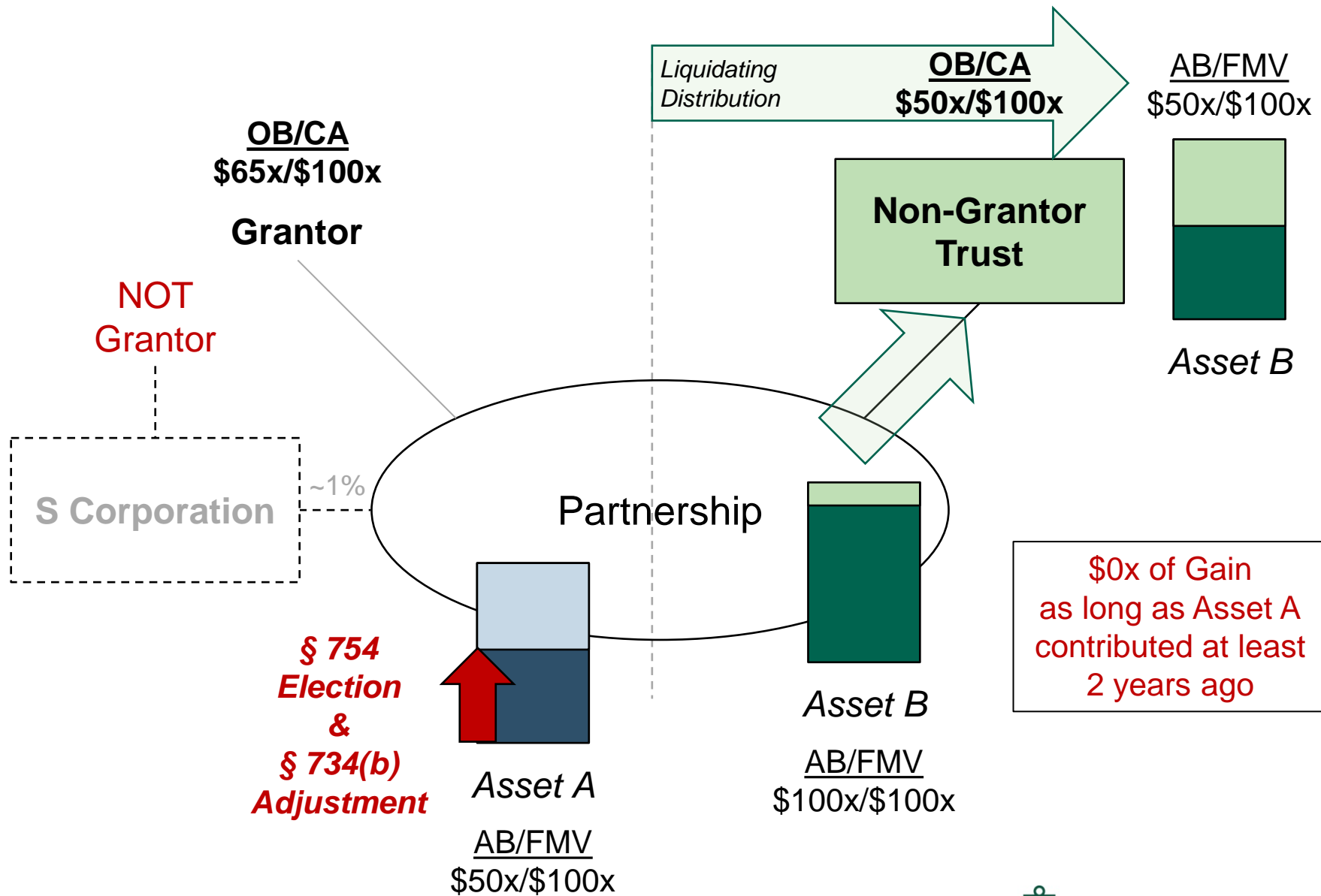


# If Deemed Transfer Had Discount on Both Sides





# No Resulting Gain But Less Basis to Shift





## Asset Considerations When Stripping & Shifting Basis

- Capital Gain Property
  - ◆ Basis of 20% property can be shifted to 25% and 28% property.
  
- Life Insurance Policy
  - ◆ Policy with cash value or other internal account (whole life, variable, universal, etc.).
  - ◆ Policy meant to be held until maturity.
  - ◆ Owner does not intend on borrowing or otherwise taking distributions from the policy.
  - ◆ Owner does not intend on exchanging or otherwise selling the policy during the life of the insured.
  - ◆ TCJA reversed Rev. Rul. 2009-13 with respect to reductions in basis for mortality charges.
  
- ESOP Note
  - ◆ Can borrow up to 95% of face value of note.
  - ◆ Allows reinvestment of borrowed funds with tax basis.



# Making a Trust a “Grantor Trust” as to Another Trust?

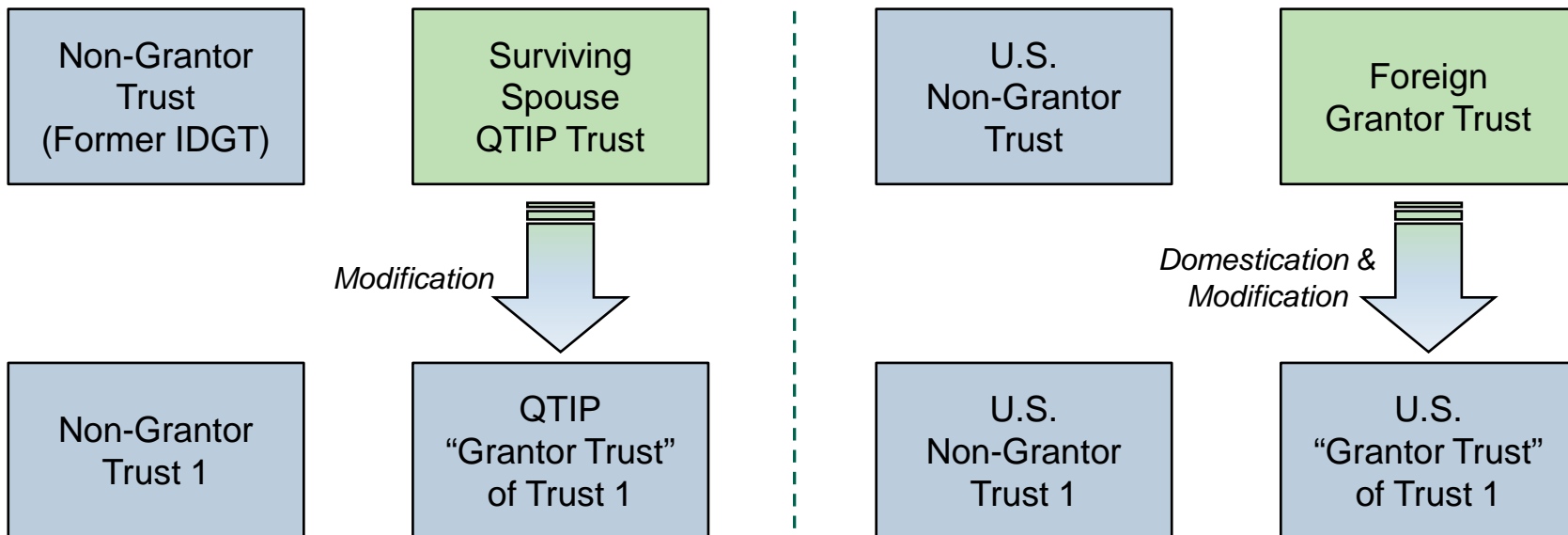
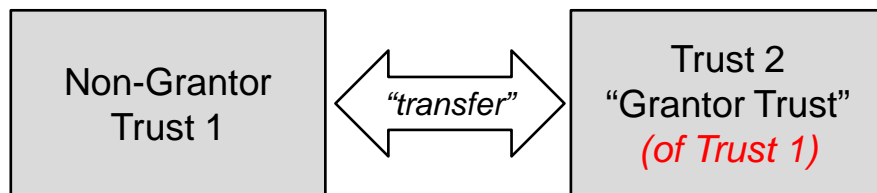
## ■ PLR 201633021

### ◆ Trust 1

- ▶ Grantor deceased.
- ▶ F/B/O children, spouse, and issue.
- ▶ Trustee proposes to transfer assets to Trust 2.

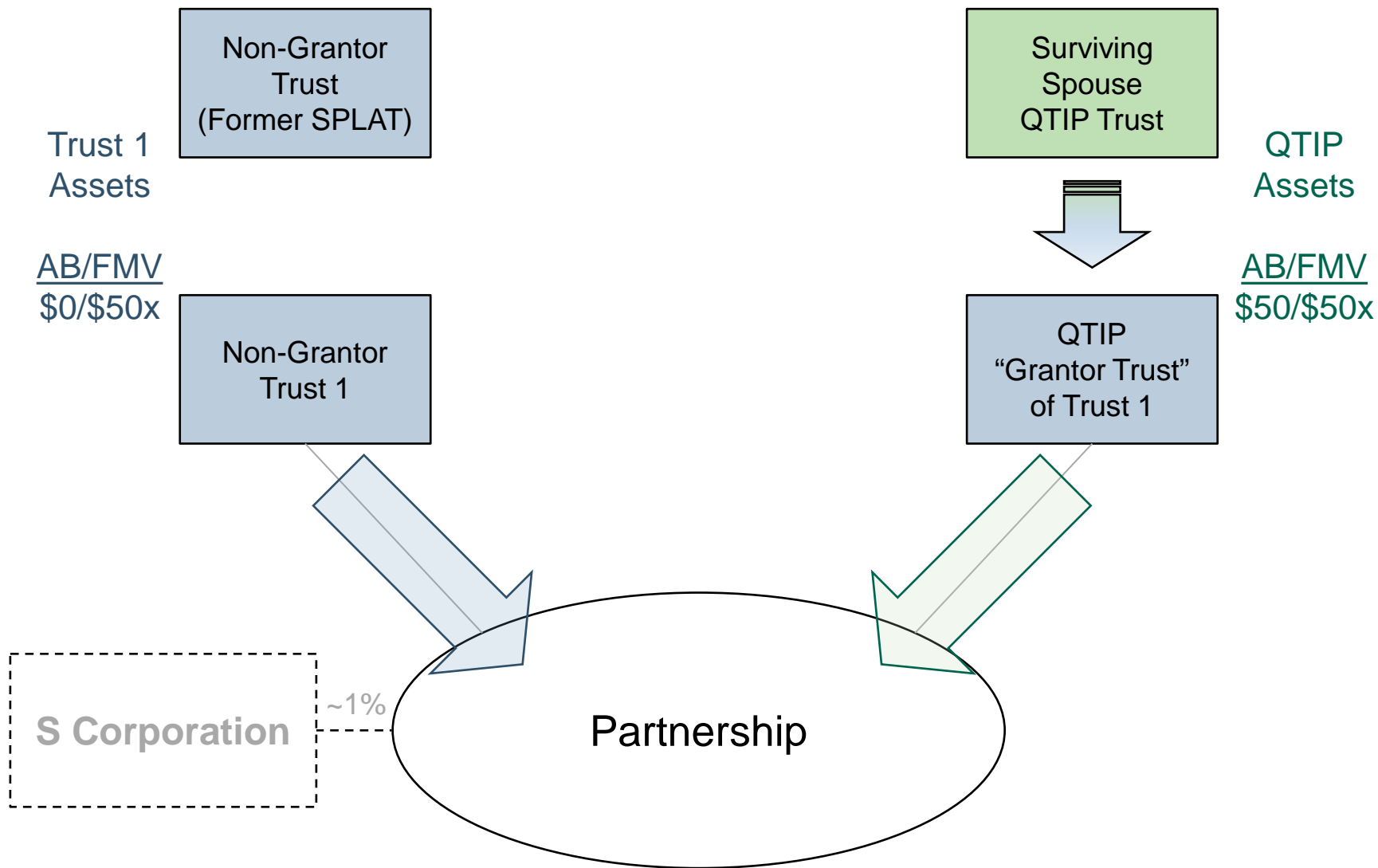
### ◆ Trust 2

- ▶ F/B/O children, spouse, and issue.
- ▶ Trust 1 retains sole power to revest net income of Trust 2.
- ▶ Lapses on the last day of the calendar year.
- ▶ “Net income” includes income under § 643(b) and capital gain.



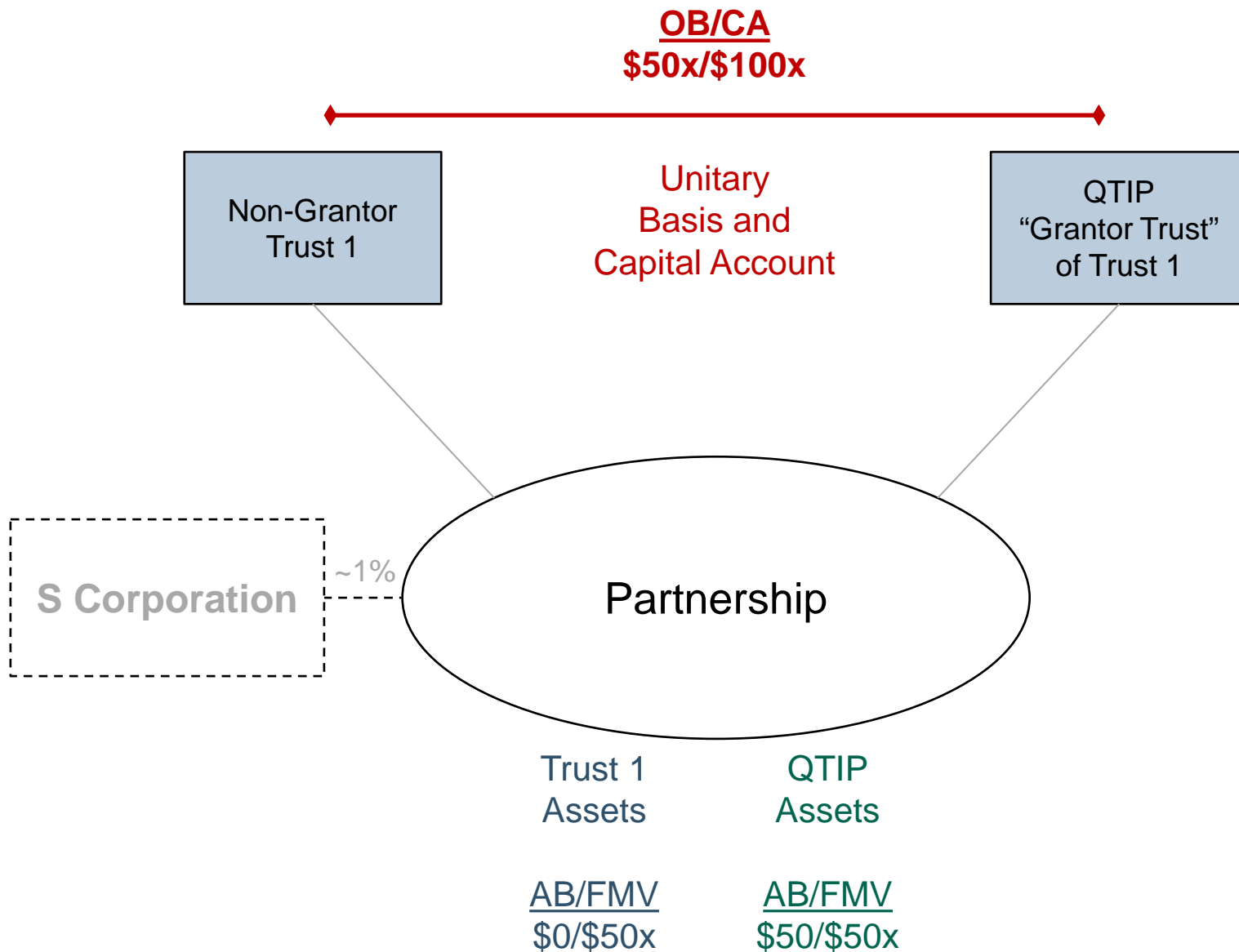


# Sharing Basis Between Non-Grantor Trusts





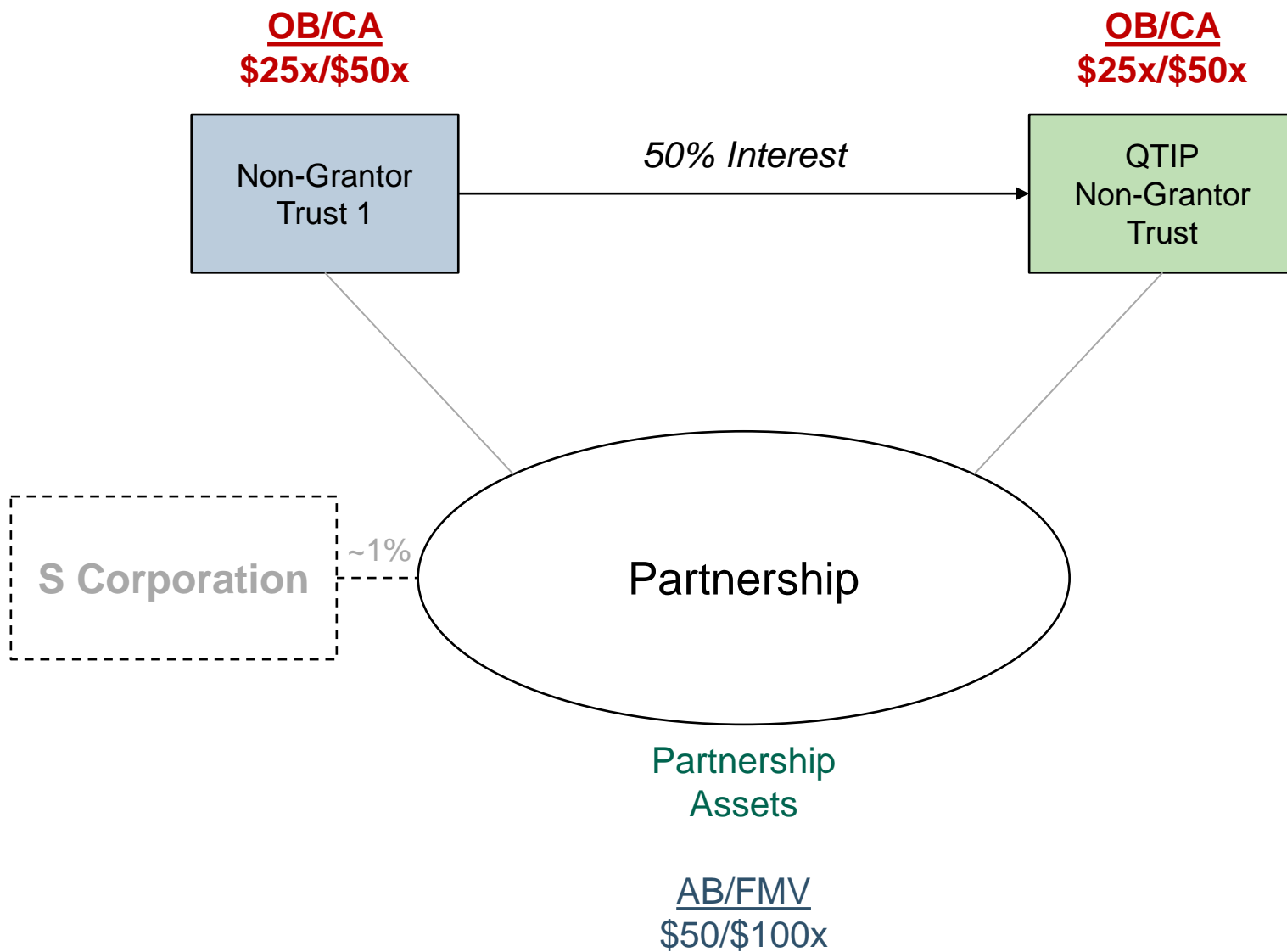
# Sharing Basis Between Non-Grantor Trusts





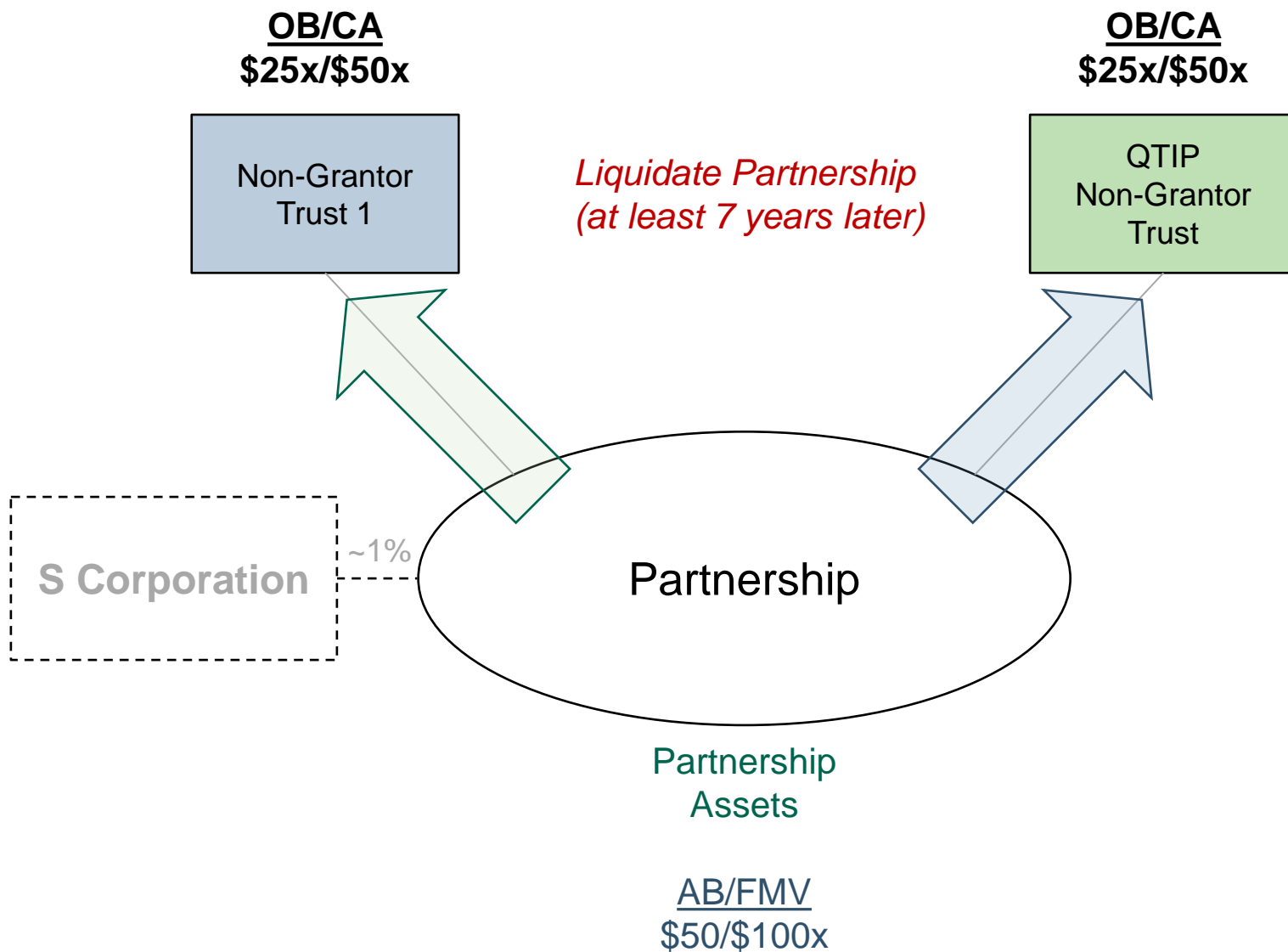


# Sharing Basis Between Non-Grantor Trusts





# Sharing Basis Between Non-Grantor Trusts





# Sharing Basis Between Non-Grantor Trusts

Non-Grantor  
Trust 1

Trust 1  
Assets

AB/FMV  
\$25/\$50x

QTIP  
Non-Grantor  
Trust

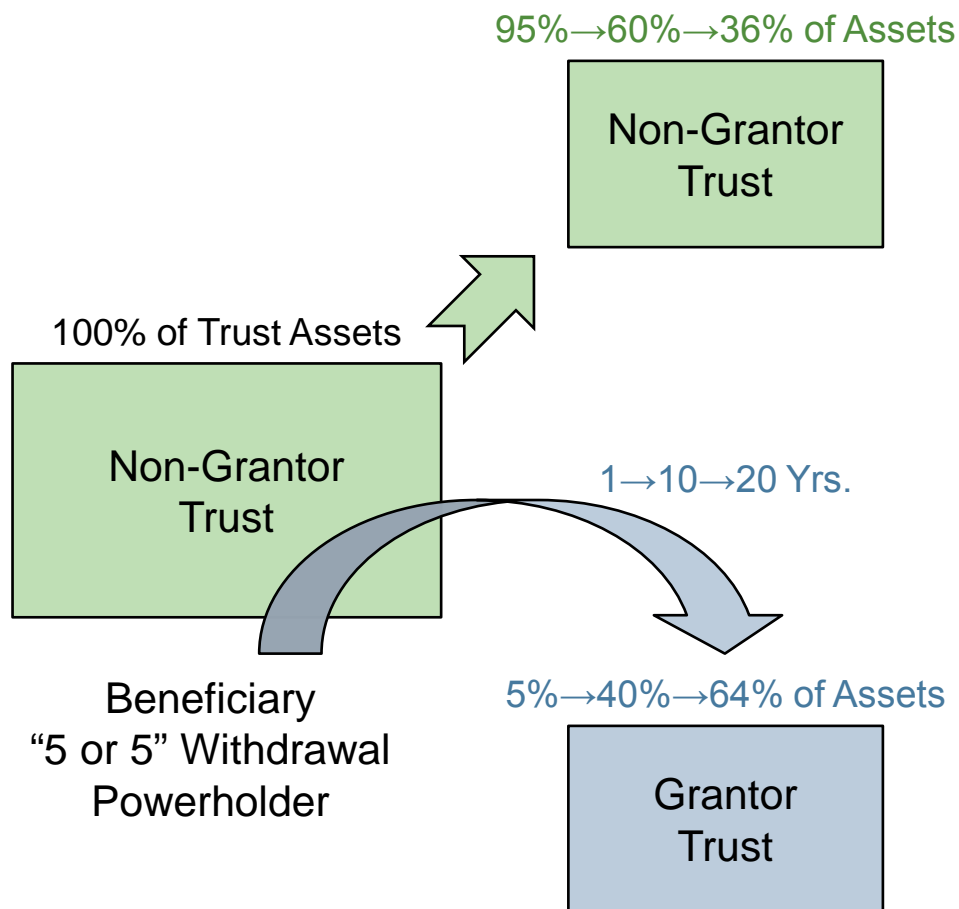
QTIP  
Assets

AB/FMV  
\$25/\$50x



# Lapses of Withdrawal Power To Create Grantor Trust Status

- Lapse of Power of Withdrawal
  - ◆ Not a release of general power if does not exceed “\$5,000 or 5%” of value of assets out of which power could be satisfied.
- Conversion to Grantor Trust
  - ◆ § 678(a) third party grantor trust status includes “release” of withdrawal power.
  - ◆ Treated as withdrawal and recontribution and grantor trust under § 677(a).





## *Basis Planning with Foreign Trusts and Entities*



# U.S. Estate Tax of Non-U.S. Citizens and Domiciliaries



## U.S. Estate Tax: U.S. Situs Assets

- Real and tangible property located in the U.S.
- Stock of U.S. corporations
- Debt obligations of U.S. persons, except:
  - ◆ U.S. bank deposits
  - ◆ Portfolio debt
- Interest in partnerships (possibly)
  - ◆ Holding U.S. situs assets
  - ◆ Organized in the U.S.
  - ◆ Doing business in the U.S.
- Trusts
  - ◆ Look through to underlying assets

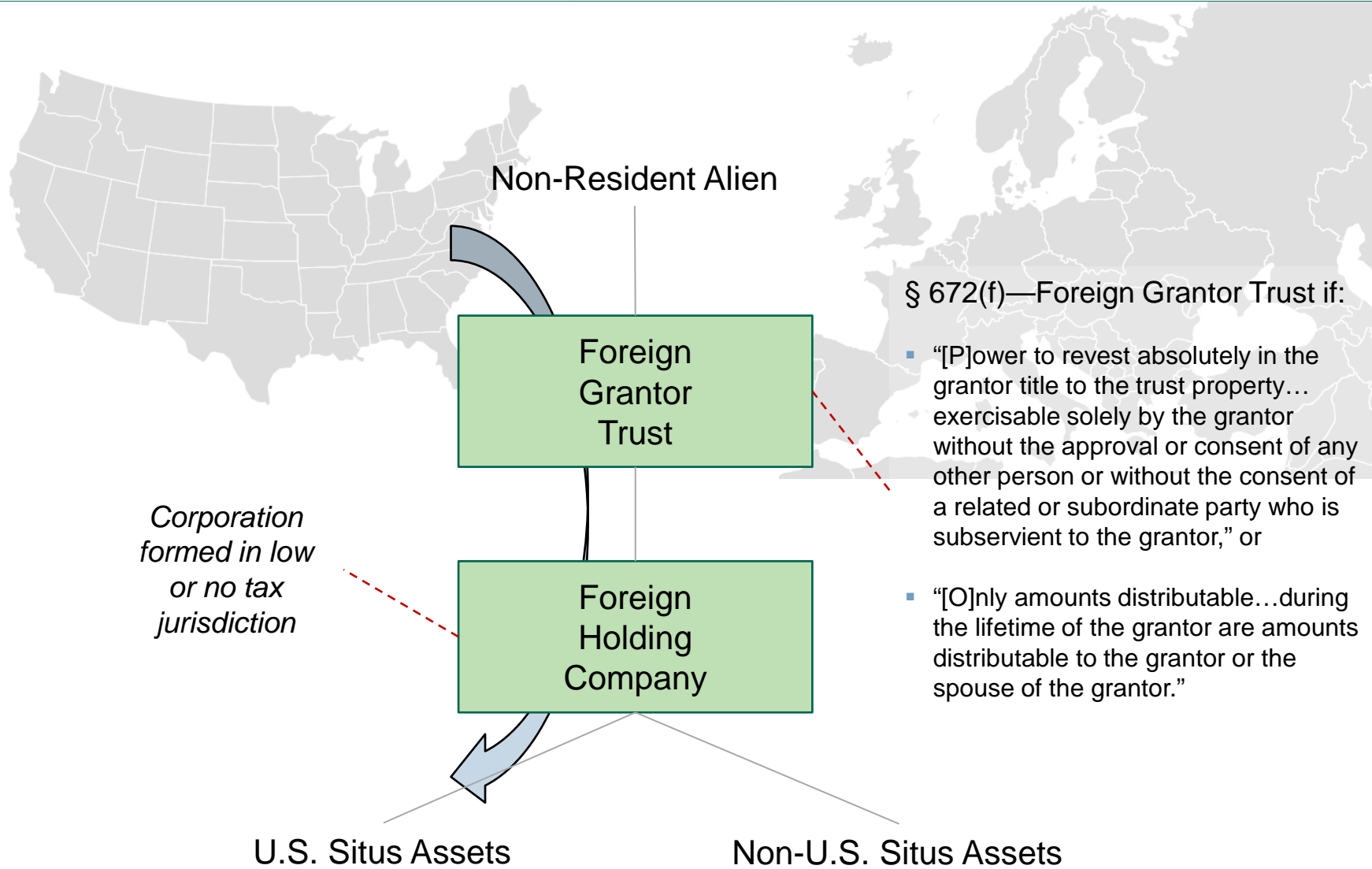


## No U.S. Estate Tax: Non-U.S. Situs Assets

- Real and tangible property located outside the U.S.
- Stock of foreign corporations
- Debt obligations of Non-U.S. persons
- Stock of a Non-U.S. corporation
- Life insurance on non-resident alien insureds



# Foreign Grantor Trusts and Foreign Holding Companies

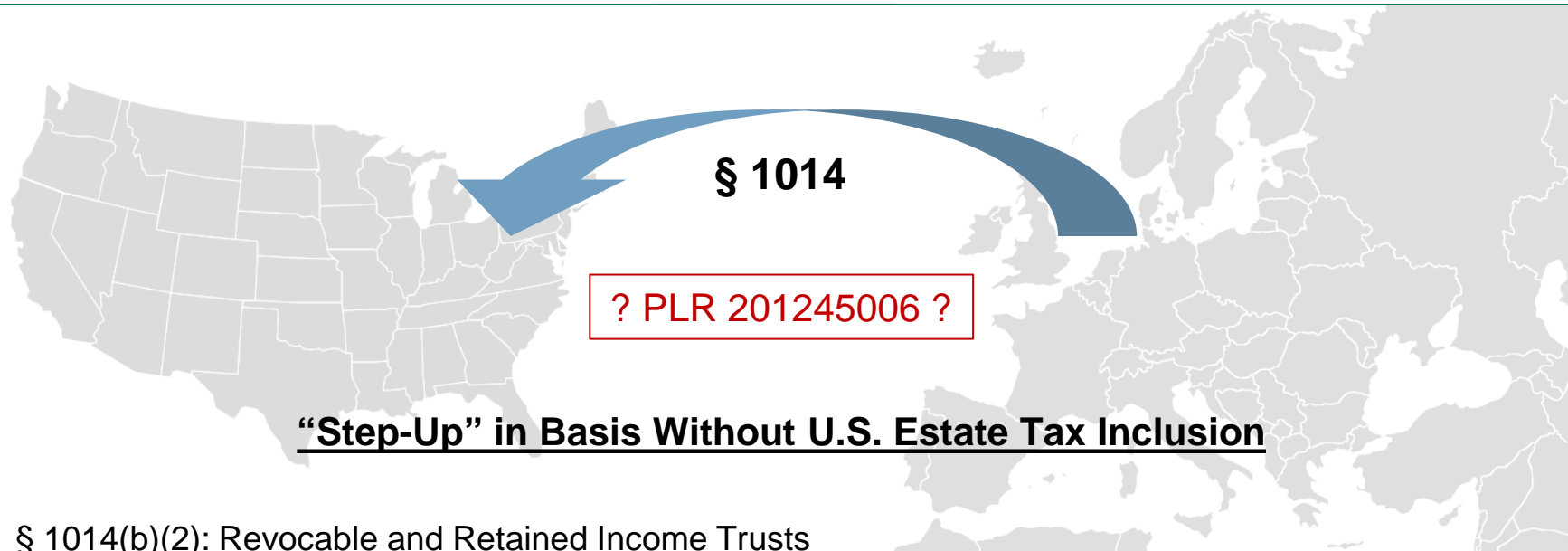


## § 672(f)—Foreign Grantor Trust if:

- “[P]ower to revest absolutely in the grantor title to the trust property... exercisable solely by the grantor without the approval or consent of any other person or without the consent of a related or subordinate party who is subservient to the grantor,” or
- “[O]nly amounts distributable...during the lifetime of the grantor are amounts distributable to the grantor or the spouse of the grantor.”



## “Step-Up” in Basis



- § 1014(b)(2): Revocable and Retained Income Trusts

- ◆ “Property transferred by the decedent during his lifetime in trust to pay the income for life to or on the order or direction of the decedent, with the right reserved to the decedent at all times before his death to revoke the trust.”

- § 1014(b)(3): Retained Control Trusts

- ◆ “[P]roperty transferred by the decedent during his lifetime in trust to pay the income for life to or on the order or direction of the decedent with the right reserved to the decedent at all times before his death to make any change in the enjoyment thereof through the exercise of a power to alter, amend, or terminate the trust.”

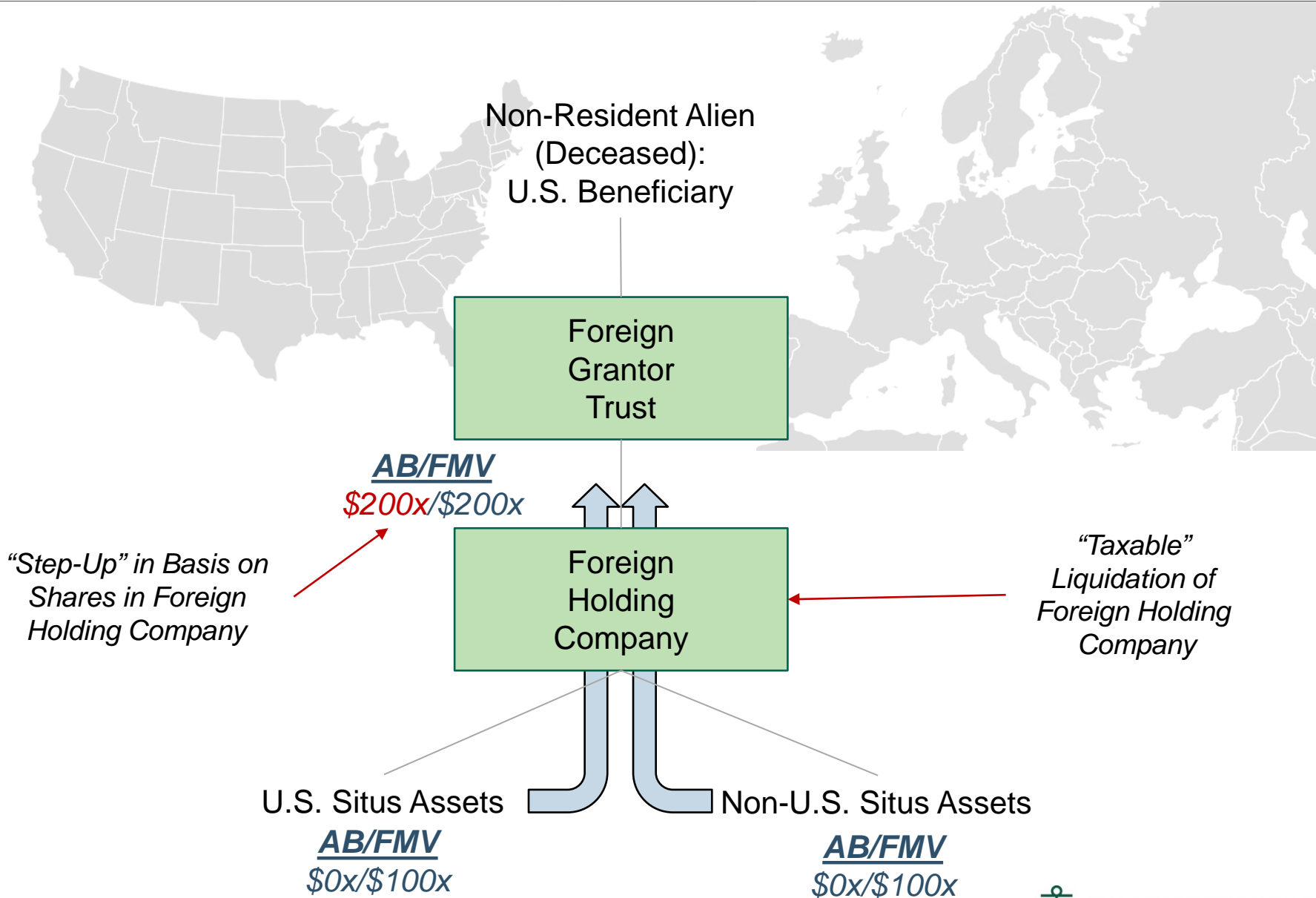
- § 1014(b)(4): Exercised Testamentary General Power of Appointment

- ◆ “Property passing without full and adequate consideration under a general power of appointment exercised by the decedent by will.”



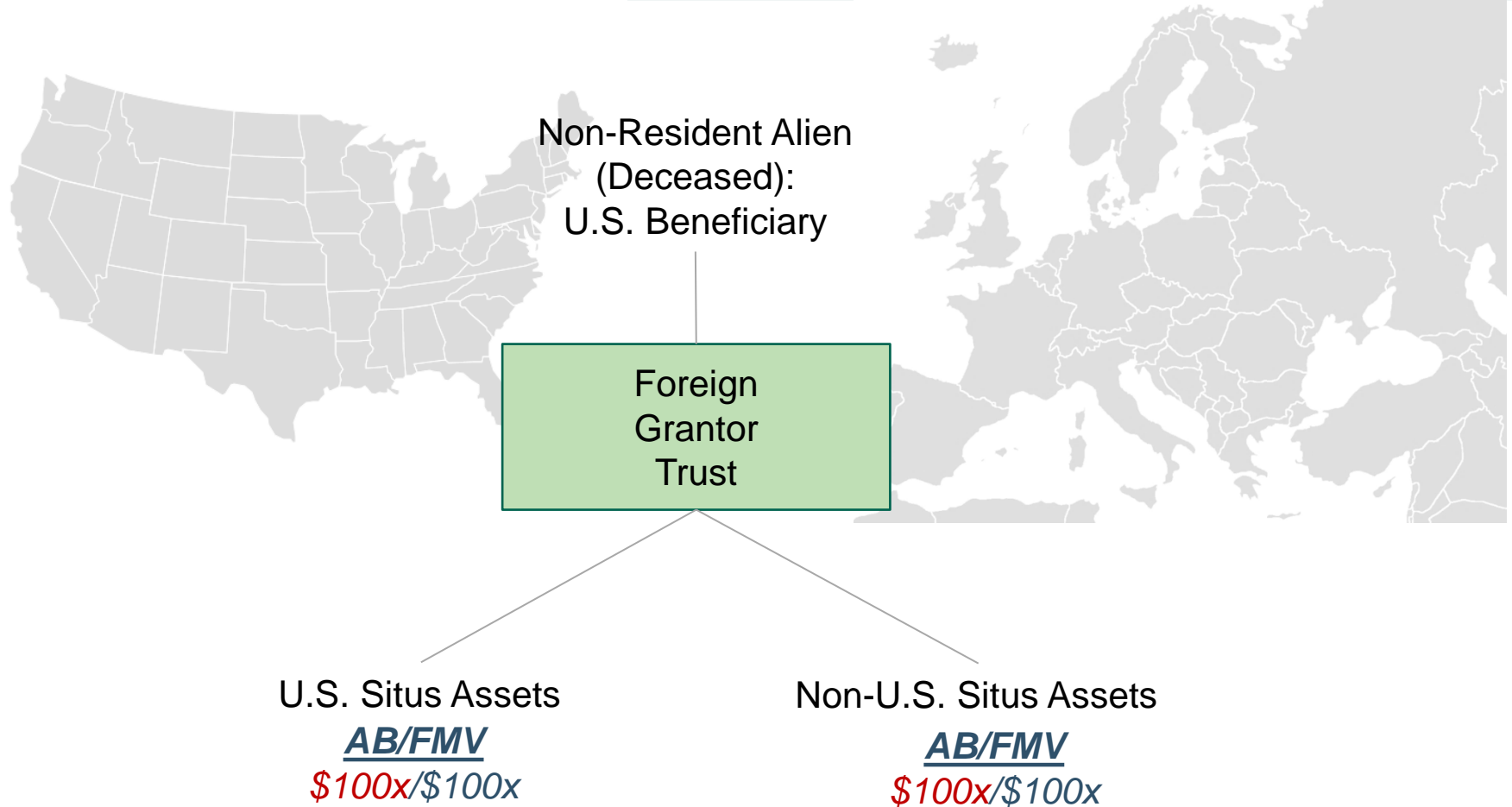


# “Basing-Up” With Foreign Holding Companies



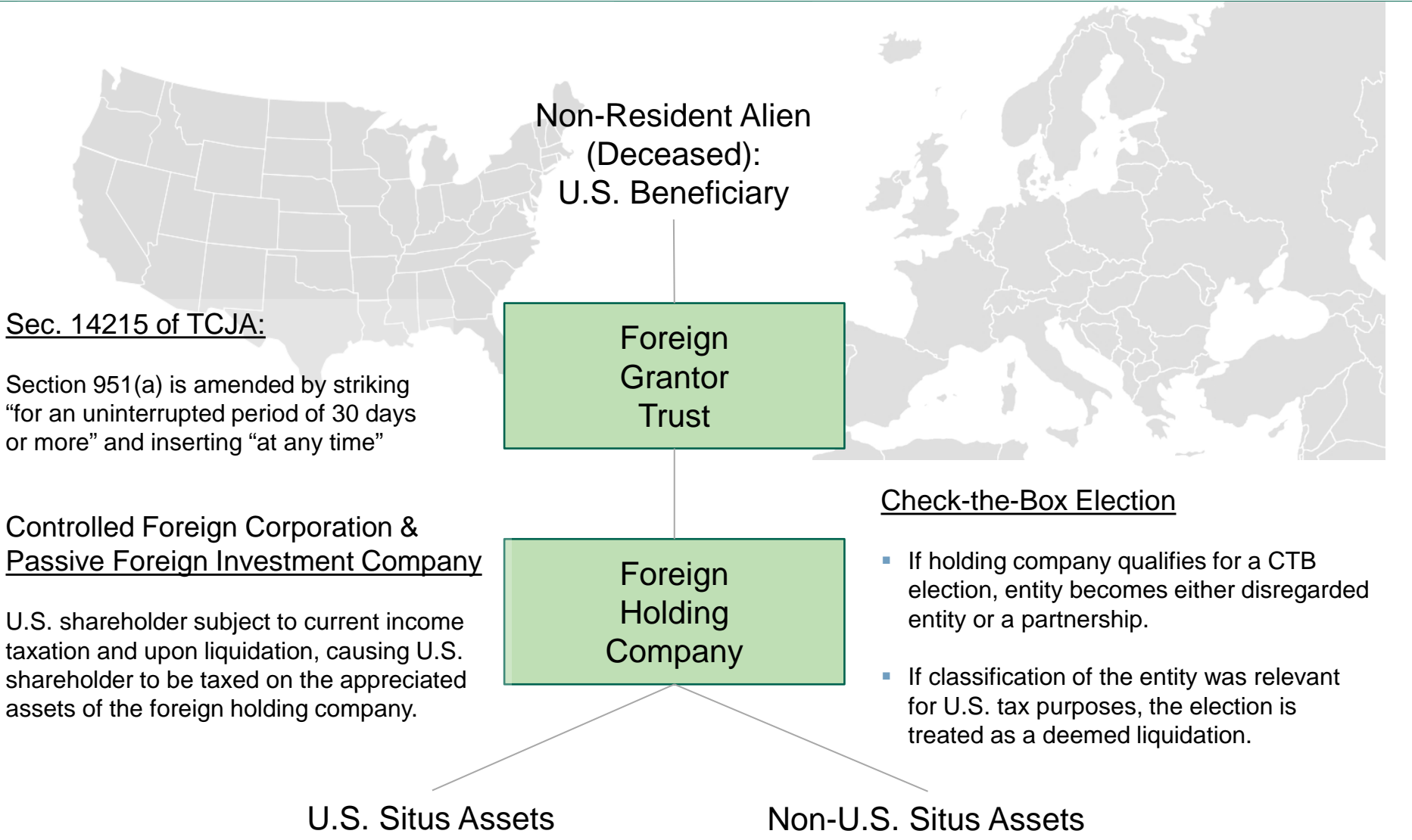


# “Basing-Up” With Foreign Holding Companies





# Check-the-Box, Timing, CFC, and PFIC Issues





# Possible Solution: Tiered Structure

§ 951(a)(2)

Treas. Reg.  
§ 1.951-1(b)(1)

§ 952(a)  
Subpart F Income

Workaround Required?  
Closing tax year?  
Unlimited company?

Non-Resident Alien  
(Deceased):  
U.S. Beneficiary

If DOD on or before March 16,  
no Subpart F Income.  
  
If DOD after March 16,  
1/77 (or Less) of Annual Income  
Is Subpart F Income.

Foreign  
Grantor  
Trust

100%

100%

CTB 2 days *after* DOD

Foreign  
Corporation  
#1

CTB 2 days *after* DOD

Foreign  
Corporation  
#2

50%

50%

§ 332(a)  
Not applicable.  
  
No common parent.  
[See § 1504(a)]

Foreign  
Corporation  
#3

CTB 1 day *before* DOD

U.S. Situs Assets

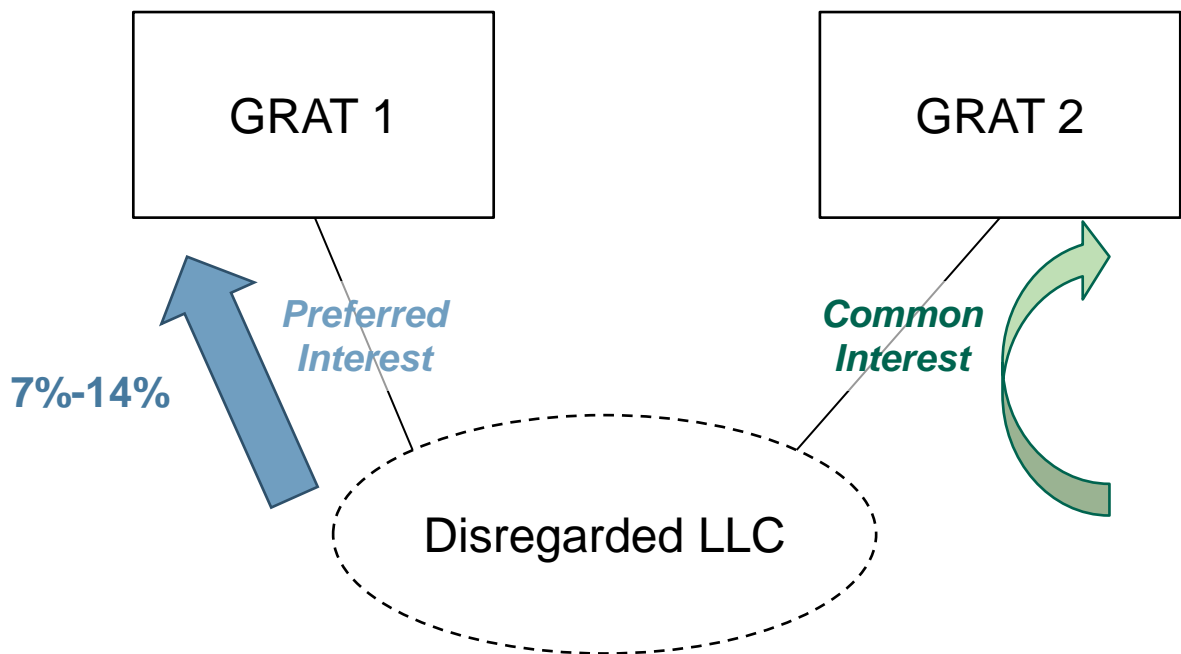
Non-U.S. Situs Assets



## *Disregarded Entities*

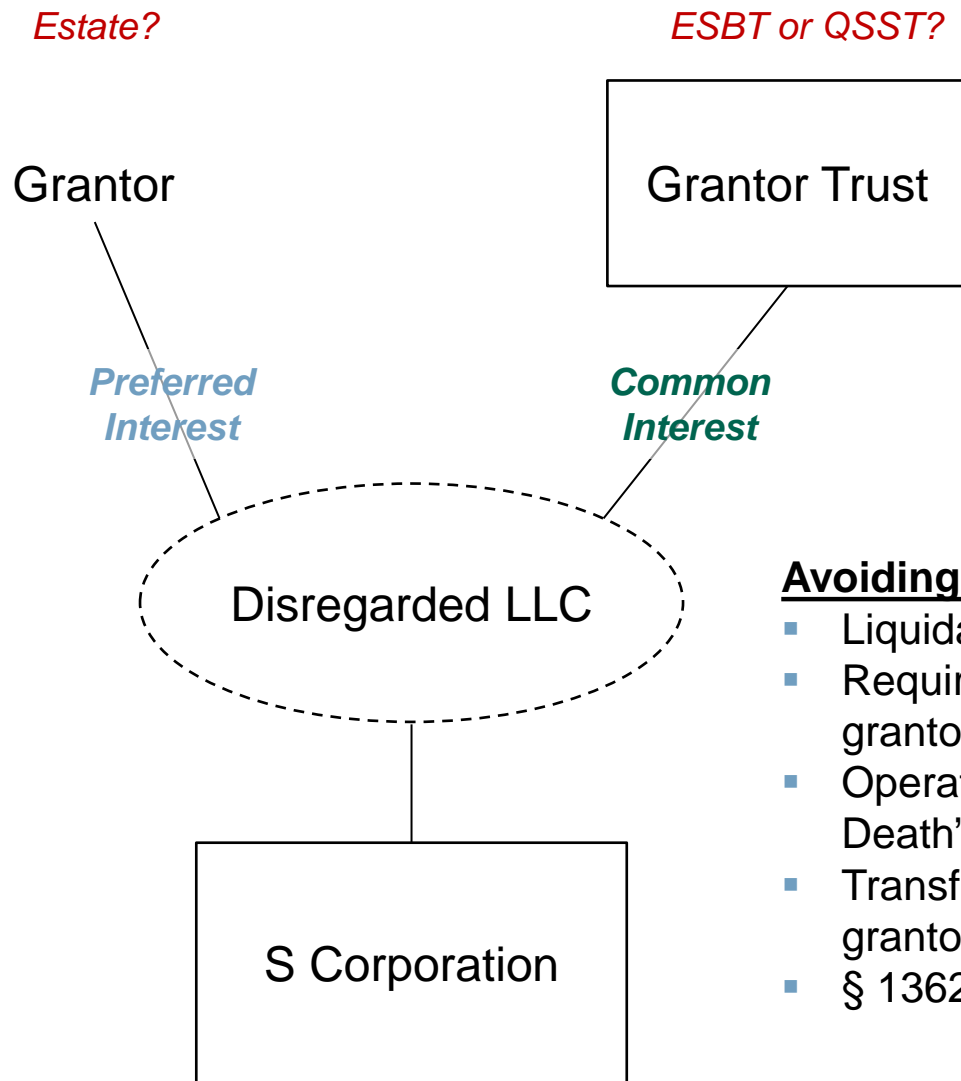


# Disregarded Entities: GRATs





# Preferred Freeze with S Corporation: Disregarded Entities

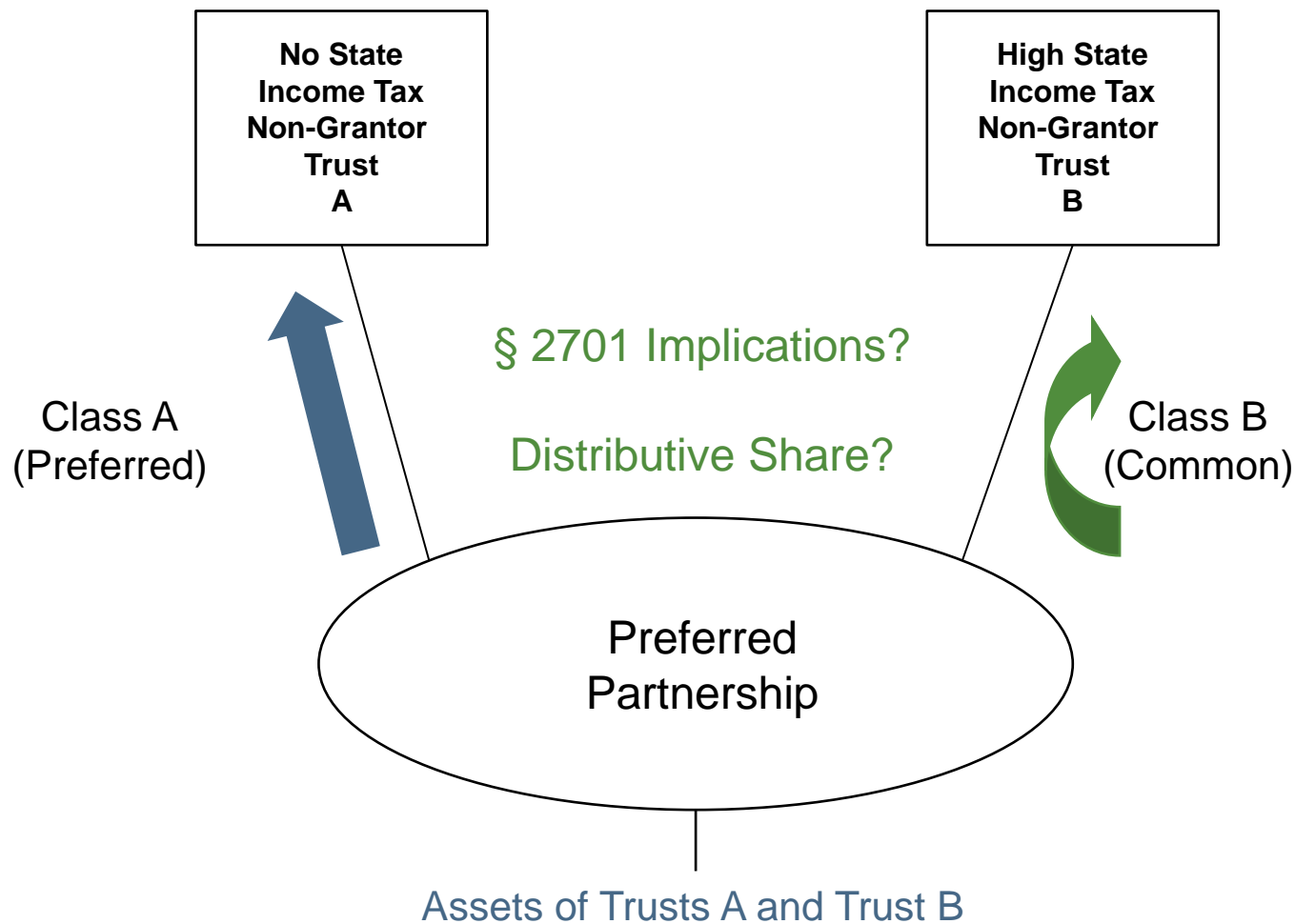


## Avoiding Termination of S Election

- Liquidation of LLC before grantor's death
- Required liquidation/termination of LLC at grantor's death
- Operating agreement "Transfer On Death" provision to trust
- Transfer provision in revocable trust of grantor's interest to trust
- § 1362(f) relief (PLR 200841007)



# Trust to Trust Preferred







# Disclosures

**LEGAL, INVESTMENT AND TAX NOTICE:** This information is not intended to be and should not be treated as legal advice, investment advice or tax advice. Readers, including professionals, should under no circumstances rely upon this information as a substitute for their own research or for obtaining specific legal or tax advice from their own counsel. These materials do not constitute and should not be treated as, legal, tax or other advice regarding the use of any particular tax, estate planning or other technique, device, or suggestion, or any of the tax or other consequences associated with them. Although reasonable efforts have been made to ensure the accuracy of these materials and the seminar presentation, neither Paul Lee, nor The Northern Trust Corporation, assumes any responsibility for any individual's reliance on the written or oral information presented during the seminar. Each seminar attendee should verify independently all statements made in the materials and during the seminar presentation before applying them to a particular fact pattern, and should determine independently the tax and other consequences of using any particular device, technique, or suggestion before recommending it to a client or implementing it for a client.

**OTHER IMPORTANT INFORMATION:** This presentation is for your private information and is intended for one-on-one use only. The information is intended for illustrative purposes only and should not be relied upon as investment advice or a recommendation to buy or sell any security. Northern Trust and its affiliates may have positions in, and may effect transactions in, the markets, contracts and related investments described herein, which positions and transactions may be in addition to, or different from, those taken in connection with the investments described herein. Opinions expressed are current only as of the date appearing in this material and are subject to change without notice.

No information provided herein shall constitute, or be construed as, a recommendation or an offer to sell or a solicitation of an offer to acquire any security, investment product or service and should not be treated as legal advice, investment advice or tax advice. This material is provided for educational and informational purposes only. Opinions expressed are those of the presenter and are subject to change without notice.

**Past performance is no guarantee of future results.** Periods greater than one year are annualized. Performance assumes the reinvestment of dividends and earnings and is shown gross of fees, unless otherwise noted. Returns of the indexes and asset class projections do not reflect the deduction of fees, trading costs or expenses. It is not possible to invest directly in an index. Indexes and trademarks are the property of their respective owners, all rights reserved. A client's actual returns would be reduced by investment management fees and other expenses relating to the management of his or her account. To illustrate the effect of compounding of fees, a \$10,000,000 account which earned a 8% annual return and paid an annual fee of 0.75% would grow in value over five years to \$14,693,281 before fees, and \$14,150,486 million after deduction of fees. For additional information on fees, please read the accompanying disclosure documents or consult your Northern Trust Representative.

There are risks involved in investing including possible loss of principal. There is no guarantee that the investment objectives or any fund or strategy will be met. Risk controls and asset allocation models do not promise any level of performance or guarantee against loss of principal. All material has been obtained from sources believed to be reliable, but the accuracy, completeness and interpretation cannot be guaranteed.

Securities products and brokerage services are sold by registered representatives of Northern Trust Securities, Inc. (member FINRA, SIPC), a registered investment adviser and wholly owned subsidiary of Northern Trust Corporation. Investments, securities products and brokerage services are:

Not FDIC Insured | No Bank Guarantee | May Lose Value