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ISPOR ISSUE PANEL
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**Considering the Impact of the Inflation Reduction Act on
Drug Development and Patients**



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moderator



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Agenda

AGENDA

| | |
|---|--------------------|
| Welcome and Introduction | Prof Lotte Steuten |
| <i>Investor's perspective</i> on drug development incentives and innovation | Dr Ravi Mehrotra |
| <i>Patient's perspective</i> on access to emerging therapeutics for older adult populations. | Michael Ward |
| <i>Value assessment perspective</i> on balancing equitable patient access and financial sustainability | Dr Jason Spangler |
| Audience Q & A | All |
| Closing Remarks | Prof Lotte Steuten |



Welcome and Introduction

Prof Lotte Steuten, Deputy Chief Executive, OHE

Overview of drug pricing provisions in the Inflation Reduction Act

Price setting

Beginning in 2026, HHS will set Medicare prices for eligible prescription medicines in Part D. In 2028, this will be expanded to include eligible medicines in Part B.



Inflation Rebates

IRA introduces an inflation rebate to quarterly (Part B) and annual (Part D) price increases above inflation.



Part D Redesign and other provisions

Changes stakeholder liability for drug costs, caps out-of-pocket spending, smooths cost sharing, and makes other changes to benefits.



Under the IRA, federal government will set prices for selected drugs covered under Medicare



Before the Inflation Reduction Act (IRA)

- Part D was a market-based system with drug prices privately negotiated
- Direct government involvement in pricing prohibited by the **non-interference clause** in Medicare Part D.
- Payment for physician-administered drugs covered by Medicare Part B generally based on Average Sales Price (ASP) + 6%

Now

- IRA introduces provisions for the Secretary of the Department of Health and Human Services (HHS) to set Medicare prices for certain eligible medicines
- The Centers for Medicare & Medicaid Services (CMS), an operating division of HHS, will implement the drug pricing provisions of the IRA.



What drugs are eligible for selection?



Eligible for selection

Drugs with the highest total Medicare Part B & D expenditures*

Top 50 eligible drugs in **Part B**, ranked by program expenditures



Top 50 eligible drugs in **Part D**, ranked by program expenditures

- ✓ Single-source drugs**, 7 or more years after FDA approval
- ✓ Single-source biologics**, 11 or more years after FDA approval

* For years 2026 and 2027, only the top 50 Part D list is used

Ineligible for selection

- ⊗ Drugs with a single orphan designation that are only approved for that indication(s)*
- ⊗ Plasma-derived products
- ⊗ “Low spend Medicare drugs” (total Part B & Part D expend <\$200 mill annually)
- ⊗ Certain “small biotech drugs” up until 2028

*Under CMS' guidance, risk that as soon as the sponsor has an additional designation or any additional indication (whether under a subsequent orphan designation or not) they are no longer ineligible

Initial CMS guidance

***A “Qualifying single source drug” includes all dosage forms and strengths with the same active moiety (for small molecule drugs) or active ingredient (for biologics). Note: If any dosage form/strength of a single source drug or biologic is on the market for 7 or 11 years, respectively, then all dosage forms/strengths of the drug will be considered for “negotiation.”*

Manufacturer is subject to penalties for refusing to participate or not accepting MFP; other penalties could apply



Excise tax is nominally between 65% and 95% of manufacturer's total sales for the drug, over the term in which manufacturer fails to accept MFP.



Alternatively, manufacturer can exit programs but must remove all of its drugs from Medicare and Medicaid.

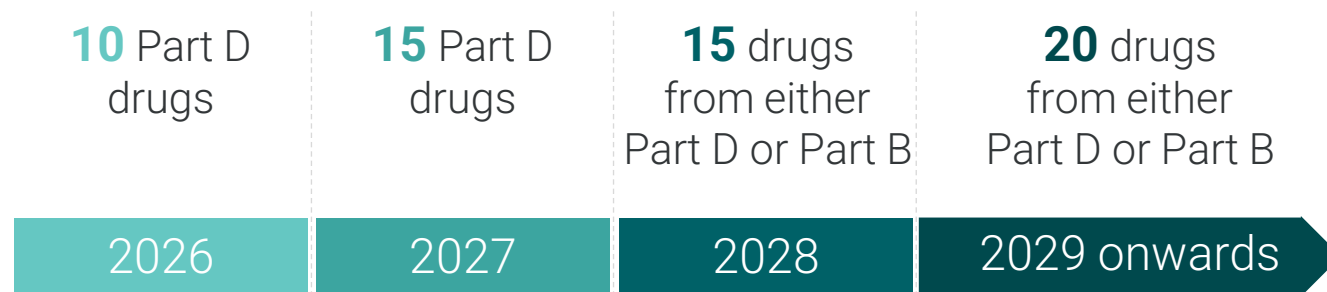


Significant civil monetary penalties for failing to comply with certain requirements or knowingly submitting false information

There will be a gradual rollout, in which more drugs will be selected for price setting each and every year



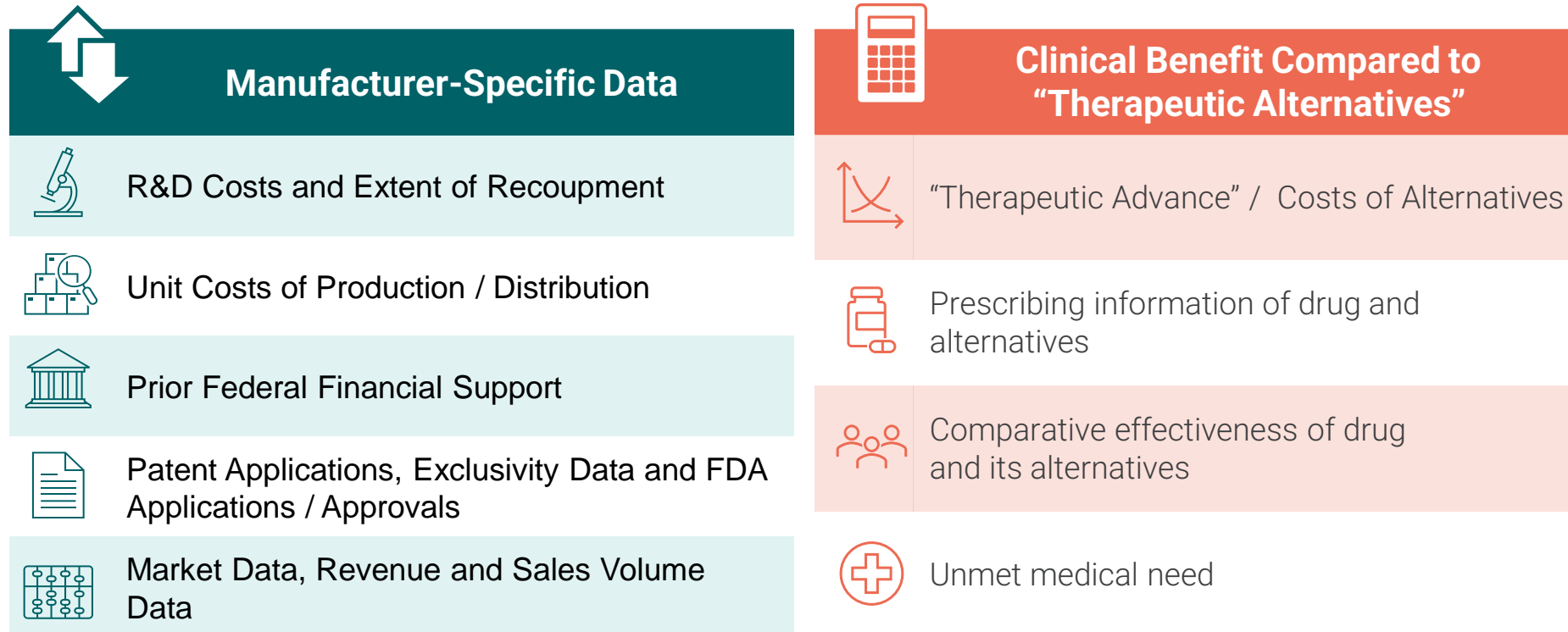
- Beginning in 2026, CMS will set Medicare prices for eligible prescription drugs



- Selection of drugs each year is cumulative, adding to the number of previously selected drugs.

Process for determining the maximum fair price

IRA specifies 2 sets of factors that HHS should consider in determining the *maximum fair price*.



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MODULE 0

Introduction to the US
Healthcare System

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MODULE 1

Drug selection
and price setting process

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MODULE 2

Inflation Rebate Provisions

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MODULE 3

Medicare Part D Benefit
Redesign and Other Provisions

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You can find
out more on
OHE's
dedicated
platform

<https://www.ohcourseinflationreductionact.com/>

Impact on drug development and patients?

Questions arising

- R&D costs and incentives for manufacturers?
- Post-approval R&D strategies related to new therapeutic uses of a medicine?
- Distortionary R&D effects on certain types of patient populations or disease areas, including rare diseases?
- Impacts on incentives for generic and biosimilar entry?
- Lessons from government price regulatory schemes elsewhere?
- Impact on timing and countries for launching new medicines or indications over time?
- Impact on plan formularies and competitive dynamics? And downstream drug development within a therapeutic class?

But first, some questions for
you

The logo for the Office of Health Equity (OHE) is displayed in white, bold, sans-serif capital letters against a dark background. The letters are closely spaced, with the 'O' and 'H' being particularly prominent.A large, faint, light-colored question mark is superimposed on a dark, textured brick wall background. The question mark is centered vertically and horizontally within the right half of the slide.

Polling
questions

5 POINT 0



CONSIDERING THE IMPACT OF THE
INFLATION REDUCTION ACT ON
DRUG DEVELOPMENT AND
PATIENTS

An Investors Perspective

- (1) Institutional Investors' view on IRA constantly evolving – **becoming bigger/major focus**
- (2) Will there be continued **change** to the act or is this “it”
- (3) What is the **real world \$ impact** of the act to the industry? **[Exhibit 1]**
- (4) Which companies / therapeutic areas / modalities does it **impact the most**?
- (5) What are the likely **structural changes** within the totality of the biopharma industry? **[Exhibit 2]**
- (6) Will it ultimately **change R&D investment approach** in the biopharma industry – does its impact “**innovation**”? **[Exhibit 3]**

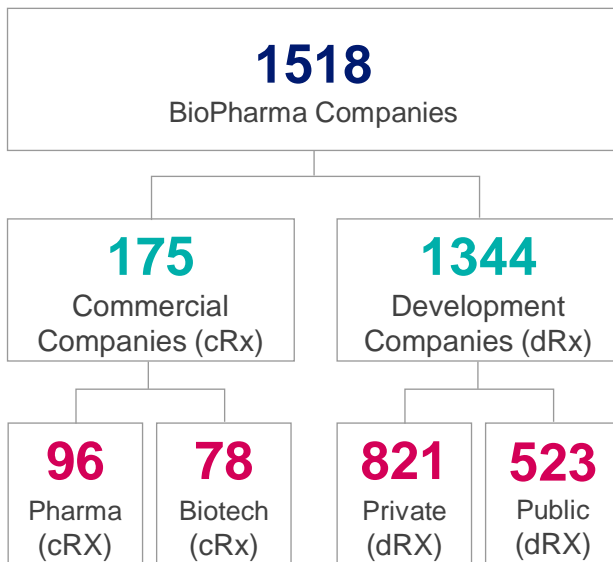
The question rarely asked -

Has it solved “the problem?”

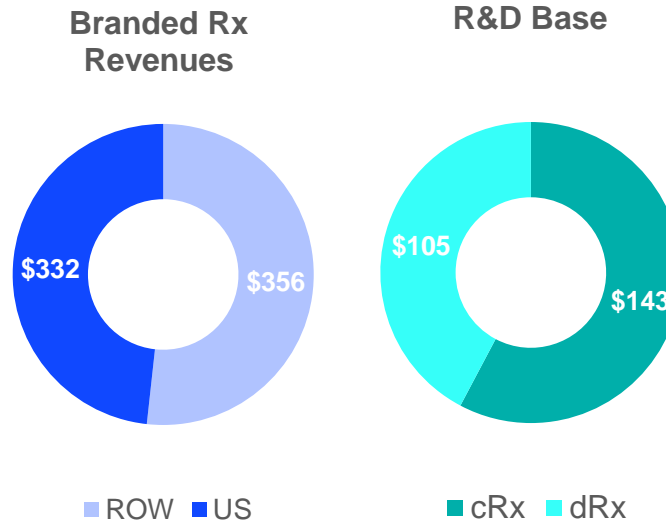
EXHIBIT 1: THE REAL WORLD \$ IMPACT OF THE ACT TO THE INDUSTRY?

WBPI = Consolidation of the Branded Drugs Industry

World BioPharma Inc. (WBPI) is a single, hypothetical entity which consolidates all the companies that discover, develop, and commercialize the totality of the branded prescription drugs industry



WBPI Key Numbers



WBPI 2019 P&L Statement

| | |
|-------------------------|---------------|
| Worldwide Net Revenues | 687,447 |
| COGS | 175,566 |
| R&D | 247,505 |
| SG&A | 188,919 |
| Operating Income | 75,456 |

(all numbers in \$US millions)

The Impact of the IRA

~20% of operating income of WBPI using “mid-point” CBO estimate of ~\$160B over year years or about \$15B/year

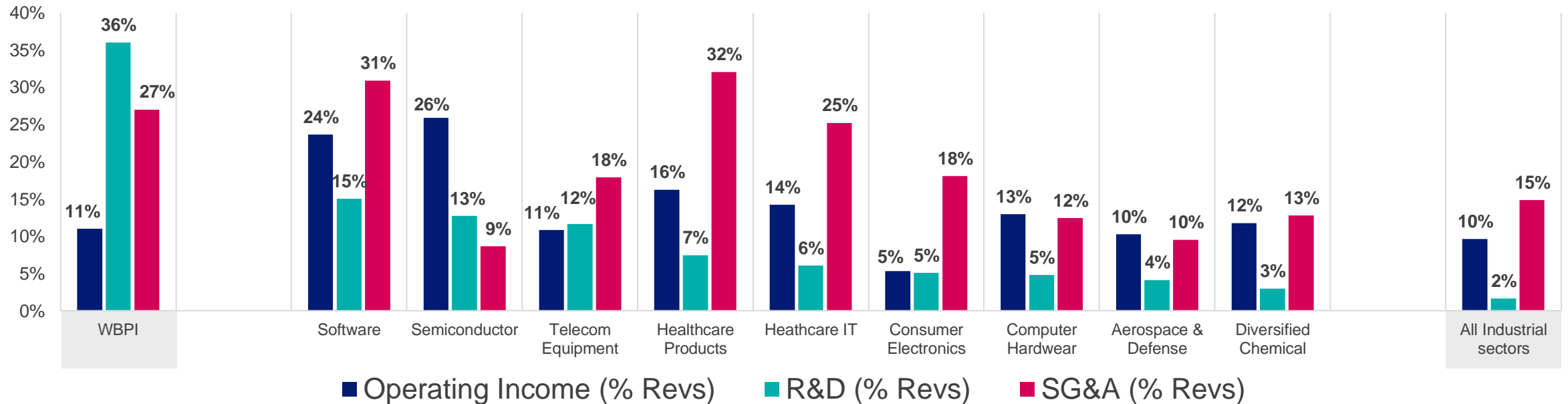
Real world impact could be bigger than 20% (1) US disproportionality contributes to WBPI operating profit (2) IRA impact will roll over into commercial plan pricing (3) IRA hits “tail” revenues where profit margins are higher

R&D budgets will inevitably be hit, key questions are “how much” and “where”?

EXHIBIT 1 PART 2: THE COMPARISON OF R&D, SGA AND OPERATING INCOME OF WBPI VS OTHER SECTORS

WBPI has the highest R&D cost of all sectors, yet an operating income in line with the general market.

Margins for High R&D Sectors



CONCLUSION : A >20% hit to operating income for the biopharma industry is BIG – there WILL BE CHANGES to the industry

EXHIBIT 2: THE STRUCTURAL CHANGES WITHIN THE TOTALITY OF THE BIOPHARMA INDUSTRY?

The “obvious” likely changes;

- (1) Skewing away from Small Molecules in Favor of Biologics and “Safe Havens”
- (2) Disincentivizing Multiple Indications for Rare Disease Molecules
- (3) Upending Traditional Drug Development Paradigms & “Pipeline in a Product” Strategies
- (4) Skewing Away from Diseases of the Elderly and Oncology

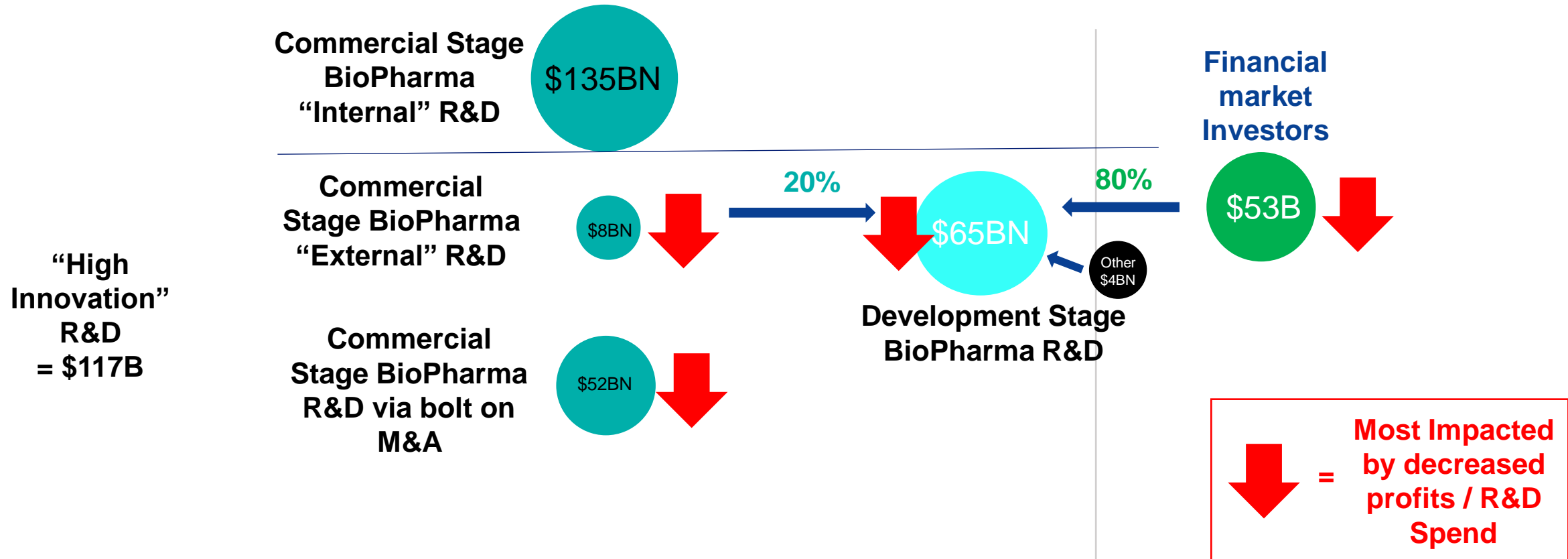
The “less obvious” possible changes;

- (1) Disincentivizing Mergers & Acquisitions involving Small Biotechs
- (2) Disincentivizing Public-Private R&D Partnerships
- (3) General Impact of Revenue Reductions on the “Innovation Ecosystem” – How Bad?

CONCLUSION: Reduction in revenues and profit very likely. Industry will reduce and adjust R&D in response.

EXHIBIT 3: CHANGE R&D INVESTMENT APPROACH IN THE BIOPHARMA INDUSTRY – THE INNOVATION IMPACT

WBPI R&D Spend



CONCLUSION : A >20% hit to operating income will likely hit "High Scientific Uncertainty" R&D the most



5 POINTO



**Catalyzing Innovation
for Healthy Aging**



Michael Ward
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About the Alliance

- Started in 1986 to advocate for federal investment in aging-related diseases at the National Institutes of Health; have been part of efforts that have resulted in substantial increases in appropriations for research into aging-related disease
- Policy focus broadened to foster older adults' ability to access high-quality care and support the ongoing development of therapeutics in areas of unmet clinical need
- Diverse efforts include direct patient, provider, and caregiver education materials and training patients to advocate in the field of patient-centered outcomes research

Confluence of cost containment and treating complex conditions

- **Sentiment that U.S. not getting what it pays for in terms of healthcare dollars**
- **Every sector has a turn in the spotlight for healthcare reform efforts – in recent years, it has been drug manufacturers and pricing**
- **Implications for patients in disease states with substantial unmet medical need:**
 - Medicare and Medicaid programs looking to **reign** in costs – new drugs seen as non-core drivers of additional spending
 - In some cases, Medicare program creating additional evidentiary standards to validate need for coverage
- **Societal prioritization – access or cost containment?**





Push/Pull of Patient Access and the IRA

- **Reduced financial barriers to access as a result of Medicare beneficiary affordability reforms**
- **Uncertainty around impacts of drug negotiation program and Part D redesign**
 - Patient advocate concerns about use of QALYs, evLYG and disproportionate impacts on older adults, individuals with disabilities
 - Does CMS see endpoints identified as important to patients as valuable or concerned their use could increase “maximum fair price” for drugs/biologics?
 - Greater plan liability = increased utilization management?
 - Differentiating impacts of negotiation from UM
- **Problematic incentives in law may harm meaningful clinical development**
 - Negotiation exemption only for drugs with single orphan indication
 - Legislative changes unlikely in near term



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Considering the Impact of the Inflation Reduction Act on Drug Development and Patients

May 8, 2023

IVI: Convener and Builder

MISSION: To advance the science, practice, and use of patient-centered health technology assessment to support decisions that make healthcare more meaningful and equitable.

- > The **Innovation and Value Initiative (IVI)** is an independent, 501(c)(3) research organization
- > IVI is working to evolve the methods of health economics to support healthcare decisions focused on maximizing patient-centered value

**COLLABORATION IS KEY TO
ACCELERATE UNDERSTANDING
OF VALUE**

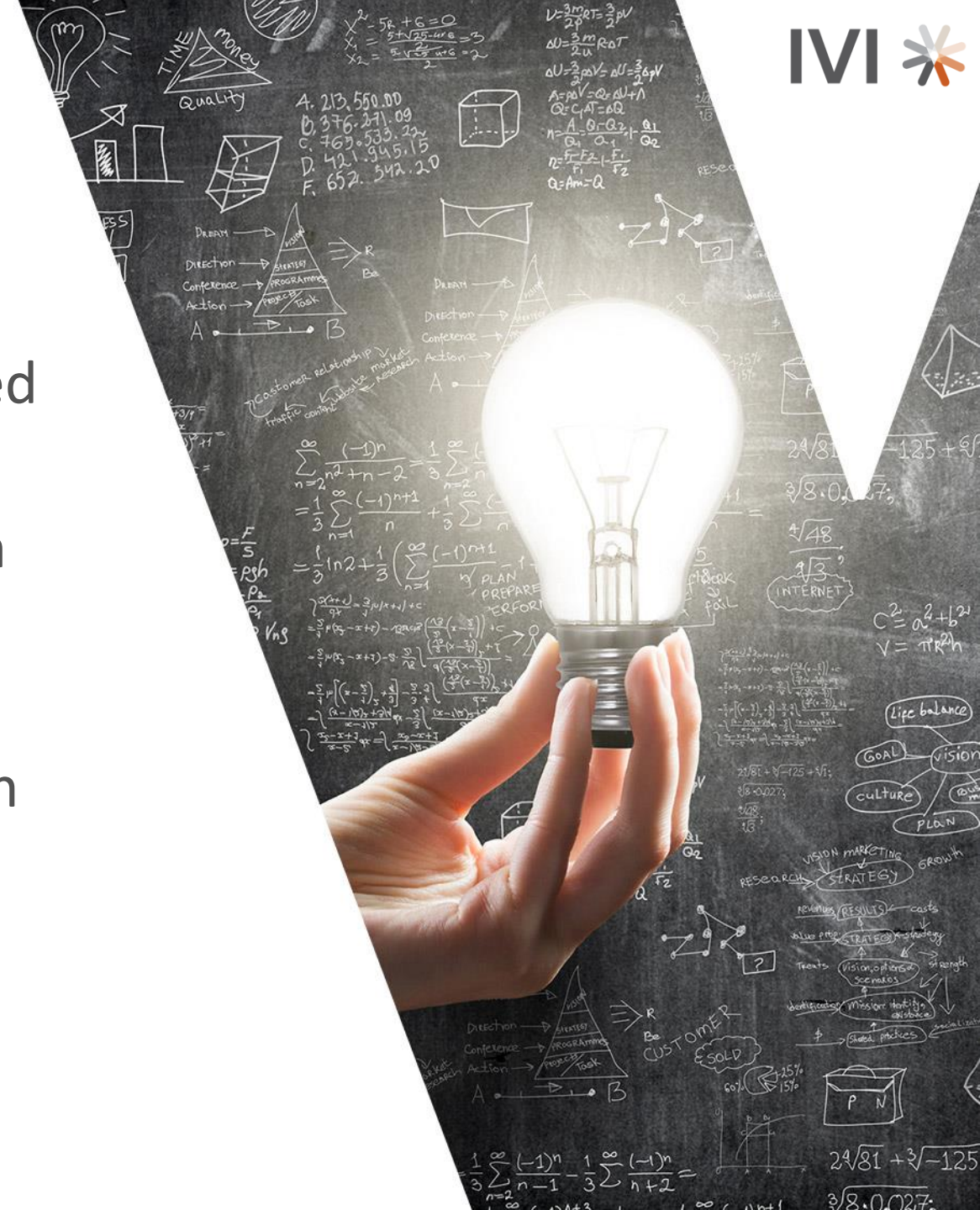


HTA and the Medicare Drug Price Negotiation Program (Medicare DPNP)

- > Focus on maximizing value, not minimizing prices.
- > Ensure health equity informs all aspects of the DPNP.
- > Elevate patient voices systematically.
- > Clarify and specify methodological approach.
- > Develop forward-looking, long-term strategy.

Focus on maximizing value, not minimizing prices.

- Patient care decisions should be based on value not budget concerns.
- More data elements are needed than initially provided by the draft guidance.
- CMS has opportunity to set a precedent by establish a framework with broader concepts of value.



Ensure health equity informs all aspects of the DPNP

- Health equity is the first pillar in CMS's strategic plan.
- Our work in health equity has identified key themes: **fundamental change, accountability, meaningful engagement, data/methods, and transparency.**
- Specific actions:
 - Align guidelines with equity goals;
 - Evaluate potential bias of evidence;
 - Create diverse advisory groups;
 - Incentivize data from underrepresented populations.

Elevate patient voices systematically

- Patient engagement needed beyond evidence submission.
- CMS should include formal mechanisms for engagement for those with lived experience.
- Specific measure needed to ensure patients as equal stakeholders, including patient researchers on CMS evaluation teams.



Develop forward-looking, long-term strategy

- Tremendous potential to spur innovations to progress the field.
- Better data and evidence, novel methods, and inclusion of patient subpopulations in the process are all important examples.
- Great opportunity to shape research priorities, advance mixed methods approach, and generate more evidence.
- The ultimate goal is a patient-centric, transparent, equitable, value-driven healthcare system.

Additional considerations (toward a US HTA?)

- > Will CMS use outside assessments?
- > Will CMS create its own HTA?
- > One assessment vs. multiple?
- > Resources and timing

IVI



INNOVATION AND
VALUE INITIATIVE

Thank You

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Panel discussion

**Considering the Impact of the Inflation Reduction Act
on Drug Development and Patients**

Audience Q&A

**Considering the Impact of the Inflation Reduction Act
on Drug Development and Patients**

THANK YOU

**Considering the Impact of the Inflation Reduction Act
on Drug Development and Patients**