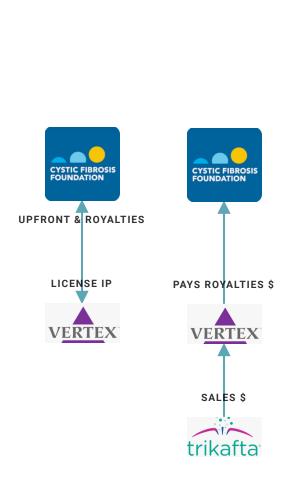
Valuing Royalty Investment Vehicles

A QUANTAMENTAL APPROACH

Royalty Pharma Use Case

INTRODUCING ROYALTY ASSETS INVESTMENT

Royalty economics : acquiring rights to therapeutics' future sales based royalties from





ORIGINAL LICENSING AGREEMENT

- Originator licensed IP to Vertex
- Originatir received upfront and sales linked royalty's rights
- Keep IP ownership

ROYALTY DEAL AGREEMENT

- Originator monetized Royalty Rights for a lump sum from Royalty Pharma
- Royalty Pharma receive future trikafta sales related royalties

INTRODUCING ROYALTY ASSETS INVESTMENT

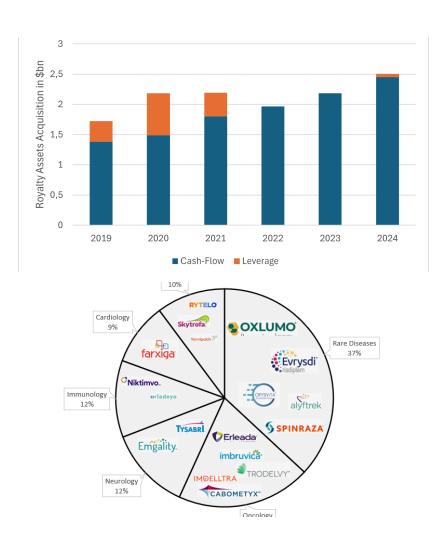
Build diversified portofolio of long term cash generative assets

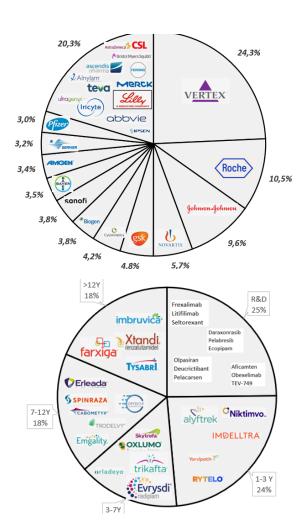
CAPITAL DEPLOYMENT

- CashFlow from Royalty receipts
- Leverage
- ASSET PICKING AND DEAL STRUCTURING

PORTFOLIO CONSTRUCTION

- Therapeutic Franchise Mix
- Products' Maturity Mix
- Counterparty risk Mix





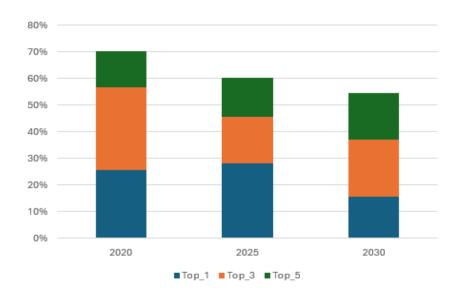
INTRODUCING ROYALTY ASSETS INVESTMENT

Structural Business Model Divergence Warrants a Distinct Valuation vs. Pharma/Biotech

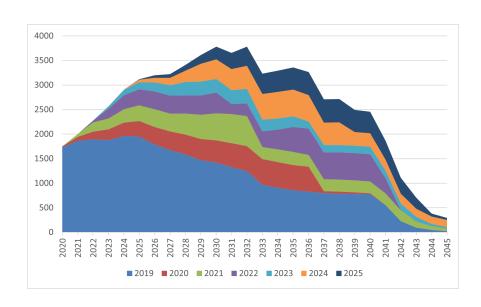
	RPRX	Pharma	Large Biotech
Investments KPI (IRR, PayBack, MOIC)			
Licensing, M&A	0		
Top Line growth			
Margin Improvement			
Operational : R&D Risks			
Operational : Market Access, Sales & Marketing	0		

Author: Olivier Leherle

PORTFOLIO CONCENTRATION



REVENUE FORECAST PER MILLESIME



RPRX: REVENUE ANALYSIS

On track to beat \$4.7bn 2030 guidance

ASSET RENEWAL AND LIFECYCLE MANAGEMENT

Top 5 revenue share: ~50% in 2030 (down from 70% in 2020)

Portfolio renewal: 2020–25 investments to deliver higher peak revenue than 2012–20

TOP-LINE GROWTH OF ~10%

\$3.8bn from current royalties; gap to be closed with new investments

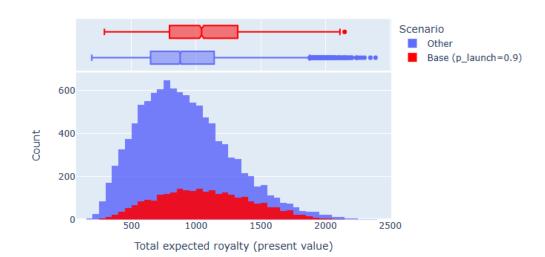
Best-case scenario (all R&D approvals + high-end sales): Current portfolio sufficient to meet guidance

Author: Olivier Leherle

SALES FORECAST EXAMPLE

Product Sales Forecast variables Peak Sales Window Source 1000 H_damped_forecast 800 Post LOE curve Post LOE level 200 2028 2032 2038 2026 2030 2034 2036 2040 2042 Quarter

Daraxonrasib: discounted total expected royalties (all variants)



FORECASTING METHODOLOGY

A data driven process

PRODUCT SALES FORECAST SCENARIOS

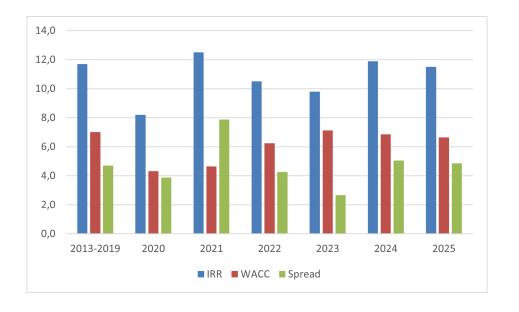
Full product life cycle forecasting

Monte Carlo simulations

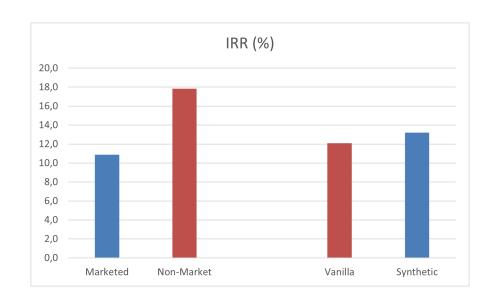
ROYALTY EXPANDED SCENARIOS

Agreement terms: royalty rates, tranches, tiers, timing, ratchet

Probability and timing scenarios on key parameters



HISTORICAL IRR VS WACC



Proven track record with 11%+ IRR

~500 BPS IRR-WACC SPREAD
 Resilience to rising interest rates
 ~\$2.5bn annual investments

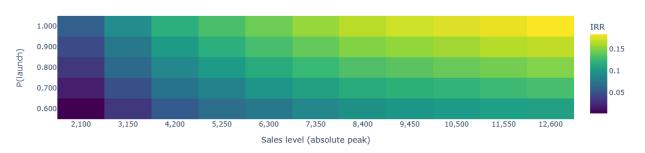
DISCIPLINED PRODUCT SELECTION &
 DEAL STRUCTURING SHOWN IN IRR MIX

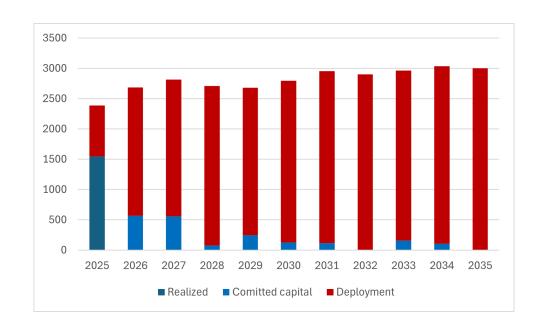
Above average approval success from selective asset picking

Deal structuring limits capital at risk via milestone payments, tranching options and ratchets

IRR SENSITIVITY EXAMPLE

Daraxonrasib: IRR heatmap (Sales level × P(launch)) | Act=first_2_on, Launch=2027, LOE=2040, WinID=0





INVESTMENTS ANALYSIS METHODOLOGY

Standardized analytics framework for evaluating deal performance

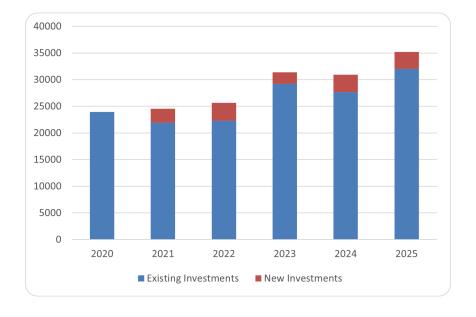
INVESTMENTS ANALYTICS

Inputs: Royalty Receipts scenarios and related cash out

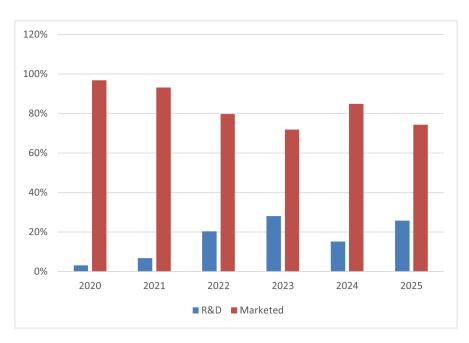
KPI (IRR, Payback, MOIC) per deal, product and millesime

IRR METRICS FOR FUTURE INVESTMENTS

Restate amount with committed capital IRR for future capital deployment



ROYALTY ASSETS VALUE



RPRX: ROYALTY ASSETS' NPVS

All-time high: \$35bn in 2025

2020-2025 CAGR: 8%, DRIVEN BY
 Upward revision of products' sales potential
 Product launches from existing R&D deals (ex Cobenfy/Trodelvy/Nurtec)
 \$2.5bn yearly capital deployment with 11% IRR
 Short-term dips: 2022 from rates; 2024 from Alytreck risk

 R&D-LINKED ROYALTY ASSETS: RISK DIVERSIFIED AND CONTAINED IN 2025

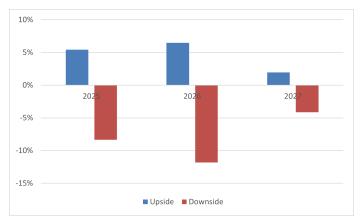
Diversified across 17 products (vs 11 in 2023) Largest exposure only 3.7% of total value (vs 13% in 2023)

Risk staggered over the next 5 years

MIX RAV MARKETED VS R&D

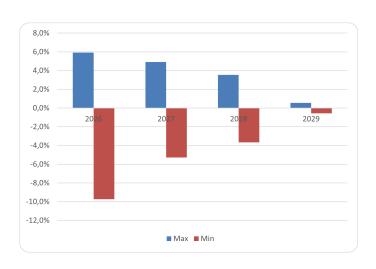
Author: Olivier Leherle

SENSITIVITY TO BINARY EVENTS



* 2025: Approval (aficamten), Filing (ecopipam), and Phase 3 results (obexelimab, deucrictibant). 2026: Approval (TEV749), Filing (seltorexant), Phase 3 results (daraxonrasib, olpasiran, pelacarsen). 2027: Phase 3 results (frexalimab, litifilimab, pelabresib)

SENSITIVITY TO SALES REVISIONS



RPRX: ROYALTY ASSETS' NPVS

Sensitivity and Risks to valuation

BINARY EVENTS RISKS

2026 major binary event risks: Alyftrek court decision Risk Related to R&D Products

SALES REVISION

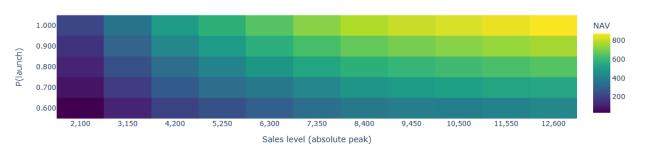
2026: Aliftreck/Trikafta cannibalisation New products sales launches

OTHER RISKS

Decay in Launch of product (1 to 2% sensitivity)
Options not triggering from third party

PRODUCT NPV SENSITIVITY EXAMPLE

Daraxonrasib: NAV heatmap (Sales level × P(launch)) | Act=first_2_on, Launch=2027, LOE=2040, WinID=0



VALUE_DATE	PRODUCT	PHASE	CT	LAUNCH	LAUNCH	TRANCHE_ACTI	TRANCHE_ACTI
			_RESULTS	_DATE	_PROBA	VATION_PROBA	VATION_TIMING
30/06/2025	Daraxonrasib	3				T1:100%, T2:80%,	T1:25-05, T2:26-06,
				31/12/2027	66%	T3:50%, T4:0%,	T3:27-12, T4:sd,
						T5:0%	T5:31-12
30/06/2026	Daraxonrasib	3				T1:100%, T2:100%,	T1:25-05, T2:26-06,
			+	31/12/2027	80%	T3:50%, T4:0%,	T3:27-12, T4:sd,
						T5:0%	T5:31-12
31/12/2026 Dara	Daraxonrasib	Filing				T1:100%, T2:100%,	T1:25-05, T2:26-06,
				31/10/2027	90%	T3:100%, T4:0%,	T3:27-10, T4:sd,
		(PDUFA)				T5:0%	T5:31-12
30/10/2027	Daraxonrasib	Approval				T1:100%, T2:100%,	T1:25-05, T2:26-06,
				31/10/2027	100%	T3:100%, T4:sd%,	T3:27-10, T4:sd,
						T5:50%	T5:31-12

NET ASSET VALUE METHODOLOGY

Structured NAV computation and stress testing

NAV CALCULATION

Combining product-level NPVs under different scenarios

Applying probability-weighted outcomes on Base case scenario

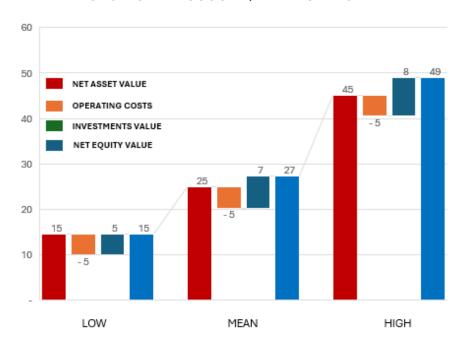
STRESS TESTS

Assets NAVs aggregation on parameters vs base case

Stress tests scenario on industry key risks

50% 40% 30% 20% 10% 0% 2020 2021 2022 2023 2024 2025 -10% -20% -30% -40% -50% -60% MEAN —HIGH

HISTORICAL DISCOUNT/PREMIUM TO NAV



EQUITY VALUATION LOW MEAN HIGH (\$BN)

Upside potential from re-rating

VALUATION GAP: ~20% DISCOUNT VS. JUSTIFIED PREMIUM:

Royalty valuation = predictable revenues, not exit assumptions

Transparency: deal terms disclosure and quarterly updates
Upcoming capital deployment and investments track
record

BEST/WORST CASE SCENARIOS

Interests rate +/-100 bp vs mean

Binary Events +/- (low = all R&D product failure, High all
R&D product success), Tranche options triggering

Sales at top or bottom end of expectations

New investments IRR min 10% high 12%

High with all options triggered

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CONTINUING THE DISCUSSION

From valuation framework to investment application

- Request the White Paper
- **✓** Discuss the Framework
- Engage in Opportunities

This presentation is provided for informational and educational purposes only. It is intended to present a conceptual and analytical framework for understanding the valuation and risk analysis of royalty-based investment structures. The material contained herein does not constitute, and should not be construed as, an offer, solicitation, or recommendation to buy or sell any security, financial instrument, or investment product. Nothing in this presentation should be relied upon for the purpose of making investment decisions or carrying out any transaction. The author makes no representations or warranties as to the accuracy, completeness, or timeliness of the information contained herein and accept no liability for any loss or damage arising from its use.

WHITE PAPER

A Quantamental Framework for the Valuation and Risk Analysis of Therapeutics Royalty Investment Vehicles

Use Case: Royalty Pharma (RPRX)

Author : Olivier Leherle September 2025

Introduction

The purpose of this paper is to analyze and value royalty investment vehicles, using Royalty Pharma (RPRX) as a case study. Royalty investment vehicles operate as specialized investment firms that acquire and manage royalty interests in biopharmaceutical assets, a market segment that has experienced particularly strong growth in recent years.

These vehicles focus on acquiring and managing royalty interests, with core strengths in identifying high-quality assets, structuring royalty acquisitions, and building diversified portfolios that generate cash flows linked to the commercial performance of those assets. The underlying operating partners (pharma or biotech) remain responsible for product development and commercialization.

Accordingly, the company is evaluated using an investment vehicle methodology, distinct from the frameworks typically applied to traditional drug developers. This approach underscores how disciplined asset selection, portfolio diversification, and strategic capital deployment can drive sustainable value creation and deliver attractive, risk-adjusted returns for investors.

For this study, dedicated Python code was developed to implement the valuation framework, enabling algorithmic modeling and the generation of long-term financial forecasts and valuation metrics.

The content of this paper is as following:

- Section 1: Revenue Analysis (page 2-4)
- Section 2: Investment Performance Review (page 5-8)
- Section 3: Assets Value Analysis (page 9-13)
- Section 4: Company Valuation (page 14-18)
- Section 5: Methodology and Framework (page 19-22)
- Section 6: Conclusion (page 23)

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