

## **Investing in EU Biotech IP - What Works?**



# **Session Speakers**



Patricia Giglio Content Manager Medtrack/Informa



Patrick Kilbride Senior Vice President, Global Innovation Policy Center, U.S. Chamber of Commerce



**Eva Grut-Aandahl** Vice President, European Government Affairs, Pfizer



**Duane Schulthess** Managing Director Vital Transformation

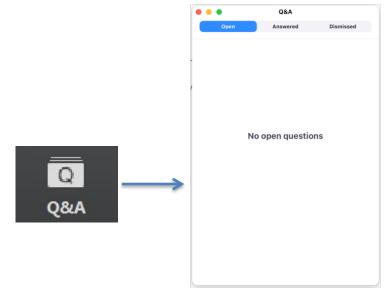


# How is your connection? Ask a question?

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The final 30 min of the webinar will be for audience Q&A, please use the question bar in the control panel IP supports an ecosystem where investors are willing to lose everything 92% of the time, in order to fund the 8% of medicines that succeed.

# **The Study Methodology**

- Analyse all EU Biotech Start-ups from the period of 2001 2007 in the UK, Netherlands, Belgium, and Spain
- Only companies developing medicinal products for human consumption to be included, not diagnostics, devices, cosmetics, or agricultural bio.
- Compare the impact of IPOs, Private Investors, and direct EU funding on the success or failure of the company

# **Defining a Successful Company**

### **Success Criteria**

- Going concern, continued operation moving through clinical research
- Funding rounds/partnerships related to a successful Phase 1 or Phase 2 result of reserach
- Success in hitting research targets, often in EU collaborations or private licensing agreements
- Company or assets acquired with value increase (sold at a premium)

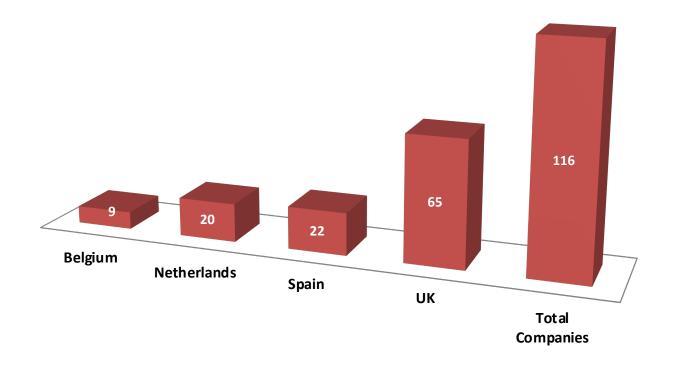
### Not a success

- Ceases to trade
- Zombie company with no activity nor clinical trials over multiple years
- Major failure of lead product trial (often with unpublished trial results for academic spin outs and early stage companies)
- Acquisition at a loss, salvage sale of a company

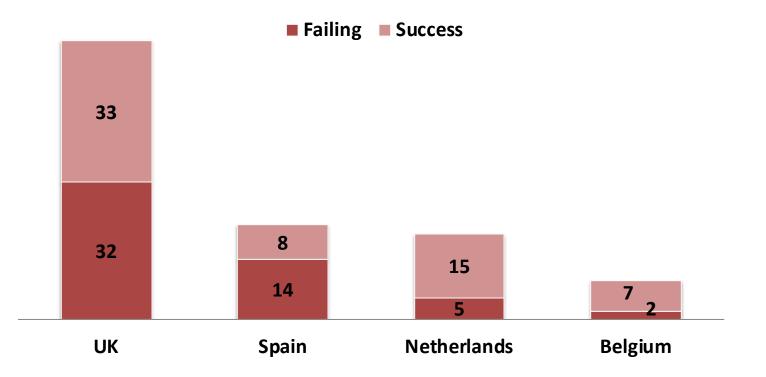
# **The Study Sources**

- Medtrack/Informa
- Annual reports
  - Companies House (UK)
  - Dutch Chamber of Commerce
  - InfoEmpresa (ES)
  - TrendsTop (BE)
- <u>https://clinicaltrials.gov/</u>, <u>https://www.clinicaltrialsregister.eu</u>
- Press releases/Internet search
- EU CORDIS (Community Research & Development Information Service) and EU FTS (Financial Transparency System) databases – A record of all funding received by organisations from the EU under Framework Research Programmes from 2001 to the present

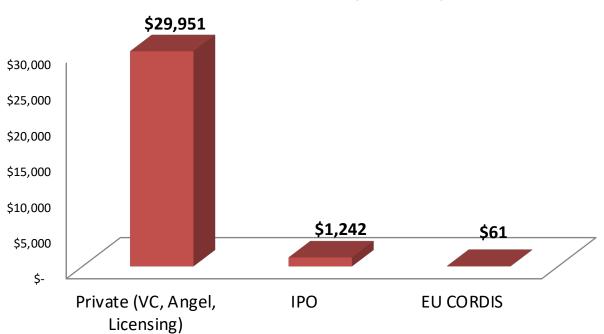
# **Total Number of Firms Studied by Country**



# **Firms Succeeding and Failing**

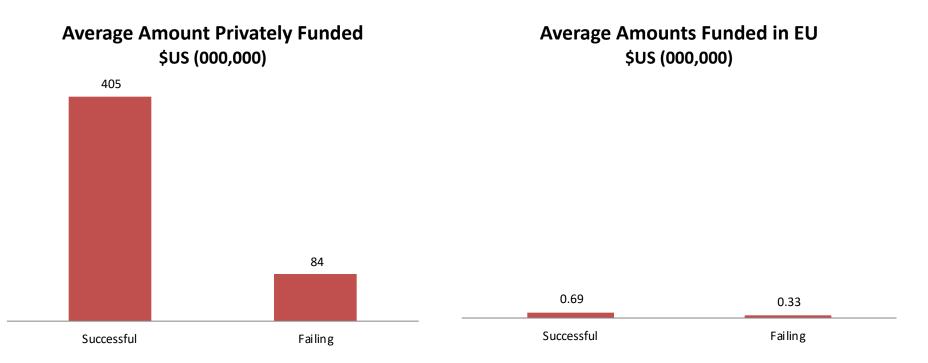


# **Total Amount of Investment by Type**



Total Invested USD (000,000)

## **Successful and Not Successful Firms** Private Funding Per Firm Far Exceeds That in EU CORDIS



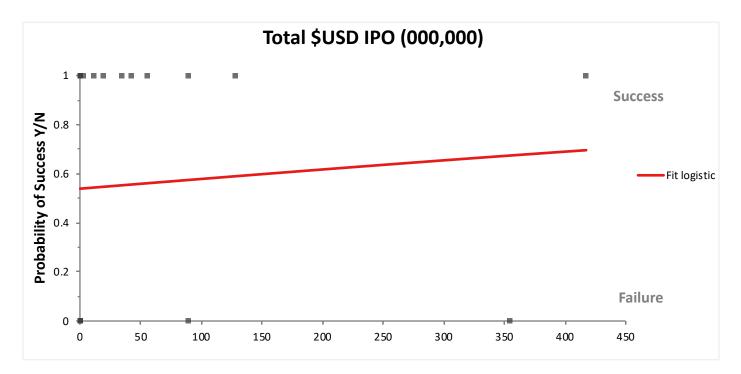
## **Public or Private Investment in IP** What Drives Success?

Do EU Grants in CORDIS, Private Funders, or IPOs (listing on a stock market) have a statistically significant impact on the success of a firm?

Logistic Regression will allow us to test these hypothesis against a binary answer "Success" or "Fail"

## DO IPO's Impact the Success of EU Firms Statistically? No

**Logistic Regression - Probability of Success** 



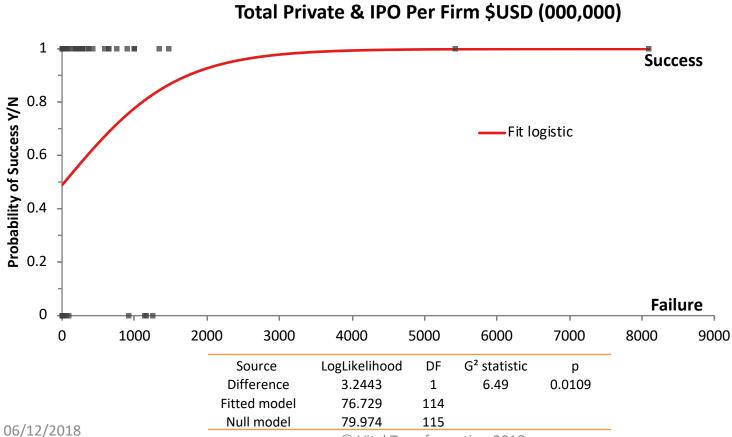
Source	-LogLikelihood	DF	G <sup>2</sup> statistic	р
Difference	0.097132	1	0.19	0.6594
Fitted model	79.876	114		
Null model	79.974	115		

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## **Total Private Funding is Statistically Significant**

Logistic Regression - Probability of Success

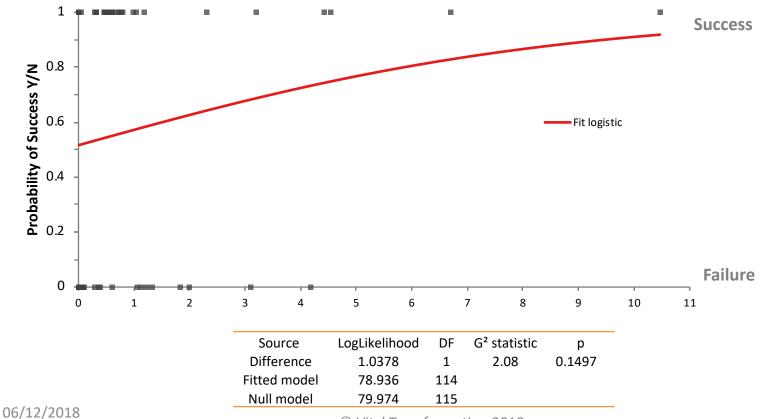


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## **EU Funding is NOT Statistically Significant**

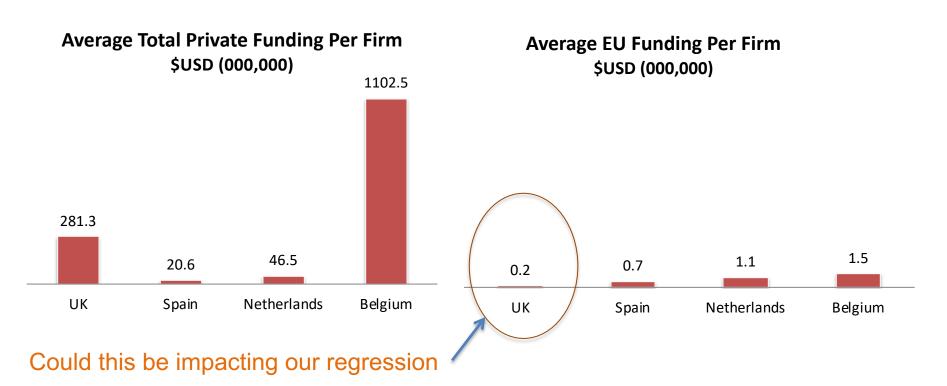
**Logistic Regression - Probability of Success** 

Total EU Grants Per Firm \$USD (000,000)

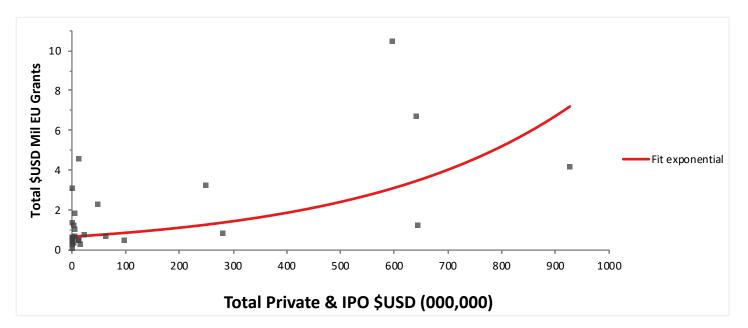


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## **Total Amount of Investment** Average per Firm



## Testing Private Funding's Ability to Predict the Amount of EU Funding in BE, NL, ES (UK Removed)



Private funding predicts EU funding to biotech companies - high statistical certainty

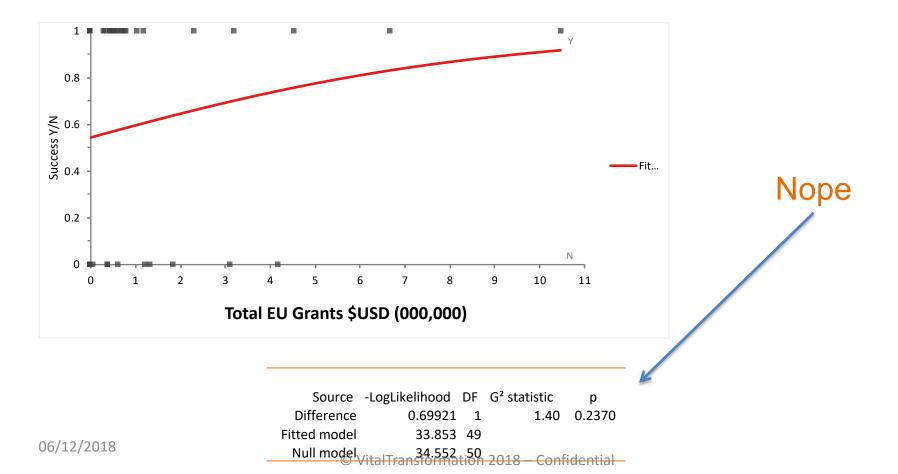
Source	SS	DF	MS	F	p-value
Difference	11.379944501	1	11.379944501	13.60	0.0010

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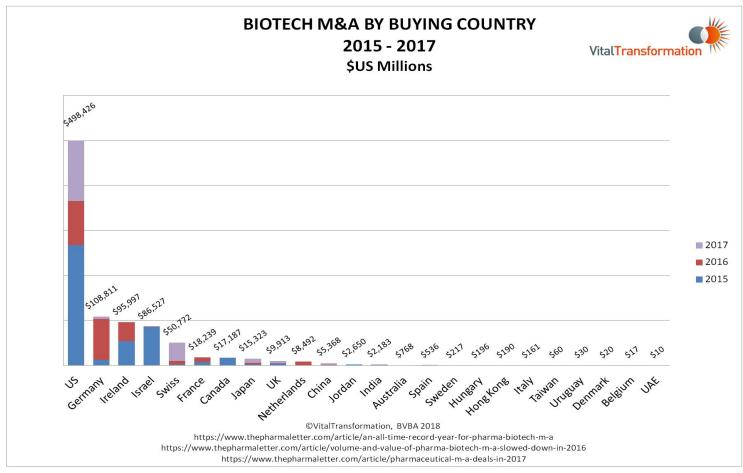
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## Does EU Funding Predict Success in European Biotech if the UK is Excluded from the data?



## The International Marketplace for Biotech IPR US Bought 70% of Mature IP in 2017



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# **Research Results**

- The total private funding given to a firm (IPO, Private Investment, Licensing) is statistically significant to the firm's probability of success
- Initial Public Offerings (Stock Market Listings) do NOT impact the success of EU firms, this may be a reason that mature firms are leaving the EU
- EU funding given directly to a firm does not impact the success rate of the individual firm with statistical certainty
- EU funding given directly to a firm can be predicted with certainty by the total amount of private investments made to a company in BE, NL, and ES, but not the UK. i.e. Private investments predict levels of EU funding
- "The Market" decides which firms will be successful by allocating resources; actions that impact investor confidence (threats against IPR, attacking market exclusivity) will negatively impact the amount of private money invested and the success of firms

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# **Questions?**







# Medtrack

Patricia Giglio

**Content Manager** 

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### About Medtrack

Medtrack provides a comprehensive view of the biopharmaceutical business landscape – companies, investments, partnerships, pipelines, patents, sales and epidemiology

46,779 **Companies** 188,791 **Drugs** 

161,390 **Deals** 

37,140 Venture Transactions >100,000 partnerships 20,268 M&A

1,812 Therapy Areas

268,679 Contacts

214 Countries

>900,000 **News Items** 



Business intelligence to support multiple functions

- Market research: monitor market-moving events like patent expiries, incidence/prevalence rates, historical/forecasted sales across the industry
- **Competitive intelligence:** track competitors' drug development, financials, deals and patents
- **Clinical research: global** status on product development at the company and drug level, trends in new drug mechanisms of action and disease targets
- Licensing opportunities: in- and out-licensing and other commercialization trends such as royalty and milestone payments by phase
- Investment Research: financial deals and venture capital data for target prospecting by region and therapy area and for evaluating investment trends
- Business development: contact screening for relationship management, conference attendees, management biographies



### Medtrack Coverage

### Companies:

Medtrack covers over 44,000 companies focused in the life sciences, and classifies them into 14 main industry categories

• Information such as investments, news, management profiles, pipelines are monitored and updated in real time

### Deals:

 Medtrack contains close to 146,000 deals involving biomedical companies, including public offerings, M&A and private equity deals, partnership deals, venture financings and private placement deals.

#### News:

 Over 800,000 searchable press releases in Medtrack with news related to company announcements, financial deals, intellectual property, market developments, product and regulatory updates.



### Medtrack Coverage

### Products:

- Medtrack currently tracks more than 180,000 investigational, branded and generic drugs, from the research through commercialization and post-marketing studies
  - Products are identified and categorized by therapeutic indication, target, mechanism of action, chemical/biological classification
  - Global patent coverage on drugs beginning in phase I
  - Historical and forecasted sales

### Epidemiology:

• Over 800 indications, with prevalence and incidence rates and population based projections.



# How We Do

### Rigorous editorial process

### CAPTURE

#### **Event Based Updates**

- Daily scanning of companies, news channels
- SEC filings, earnings presentations, transcripts and annual reports
- Trial and regulatory agencies
- Investor and partnering conferences

### REVIEW

#### Routine record review

- Each record undergoes a scheduled comprehensive review
- Existing url's reviewed for new information

### CREATE/UPDATE

#### Human intelligence

- Analysts review newly identified content
- Update or create record with new information
- Review and resolve any data discrepancies

# Medtrack

Pharma intelligence | informa

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