



**Innovative Medicines Initiative** 

## The role of SMEs in therapeutic innovation EFPIA's vision

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# SMEs are more important in Pharma today



• The changed ecosystem

• The relationship between SMEs and Pharma

SMEs in public/private partnerships
– EBiSC as an example

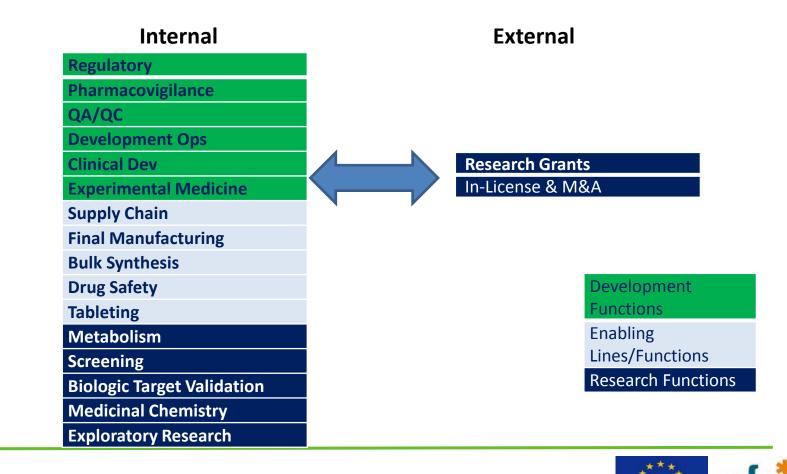




### The Pharma Ecosystem: The old model





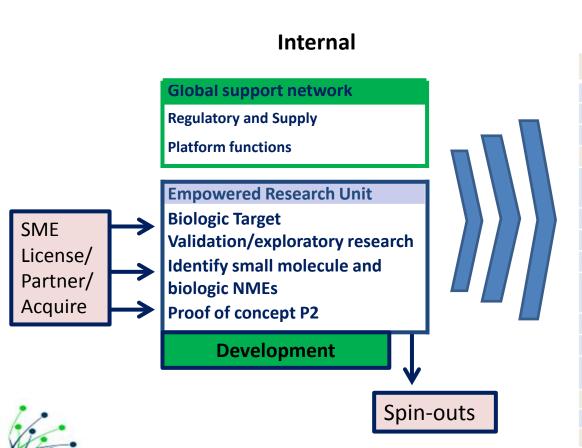




### The Pharma Ecosystem: The new model



#### Dynamic ecosystem today



#### External Service providers

Clinical trials – Parexel, Quintiles QA/QC – Parexel, Quintiles Dev Ops – Parexel, Quintiles

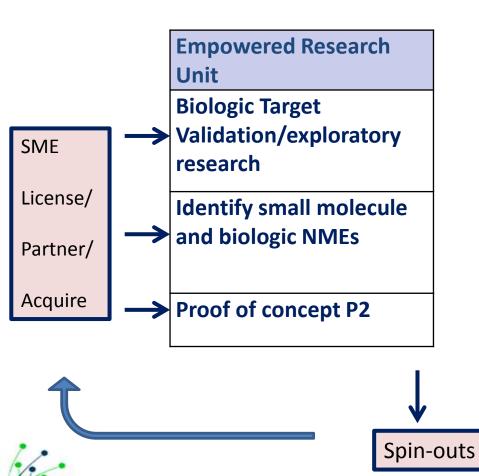
Experimental medicine – Tessella, P1vital, Imanova, Cantab Supply Chain – Fisher Final Manufacturing – Lonza, Aptuit Bulk Synthesis – Peakdale, Lonza Drug Safety – Huntingdon Life sciences, Covance, Chantest Tabletting – AMRI, aptuit Metabolism – Quotient, York, Covance Screening – Wuxi, Galapagos, Evotec, Essen

Med Chem – Wuxi, Peakdale



# SMEs are more important to Pharma



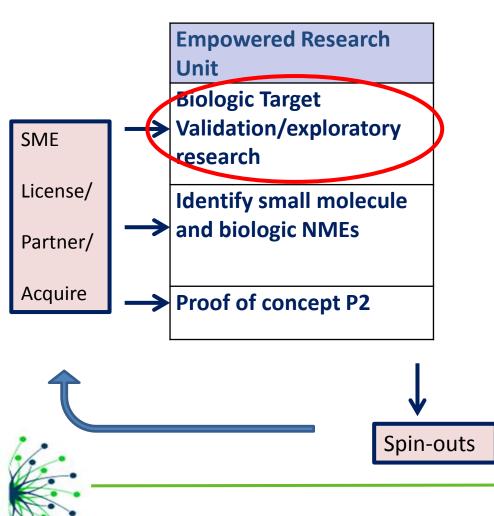


- •Pharma have VC Investment groups
- •Research decision makers
- •Cycling of assets
- •Number of deals increasing
- •More 'virtual' Research Units -External Innovation



## SMEs are more important to Pharma





Taking it to the next level



## EBiSC – European BANK of induced pluripotent Stem Cells



- Generates & distributes standardized, QC, iPS cell lines
  - International distribution capability
  - Catalogue of 3,000-10,000 cell lines
  - Can generate bespoke lines, provide services
- Launched 1<sup>st</sup> Jan 2014, IMI/Pharma funded.
- 3 year duration ightarrow self-sustaining
- 26 partners: Co-ordinated by Pfizer and Roslin Cells Ltd

#### 6 SMEs

Roslin Cells (Consortium Manager), ARTTIC, (project administration), Douglas Connect (info mgmt), European Screening Port (automation) Definigen (functional assays), Bioneer (iPS cell line generation)

### 8 universities

Edinburgh, Cologne, Bonn, Newcastle, Charité (Berlin), Hannover, University College London, Hubrecht Institute. Plus other banks and university entities



### 6 pharma

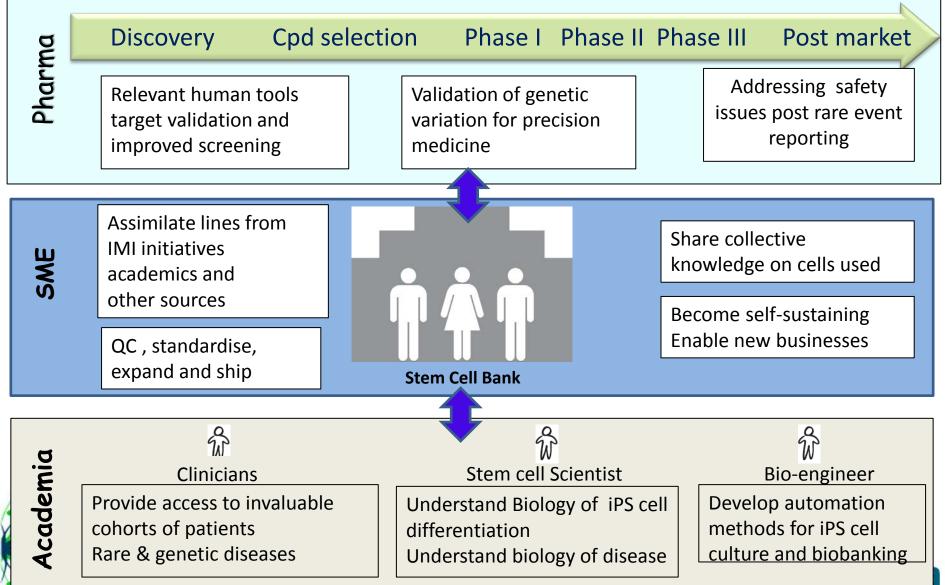
Pfizer Novo Nordisk AZ, UCB Janssen Lundbeck





### **Contributions and Impact**





## Why SMEs?



