



Modeling Technology Transfer for Russia



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Universities are Innovation Engines



AUTM Survey 2009



- **658** new commercial products introduced
- 5,328 total licenses and options executed
- **596** new companies formed
- 3,423 startup companies still operating
- \$53.9 billion total sponsored research expenditures

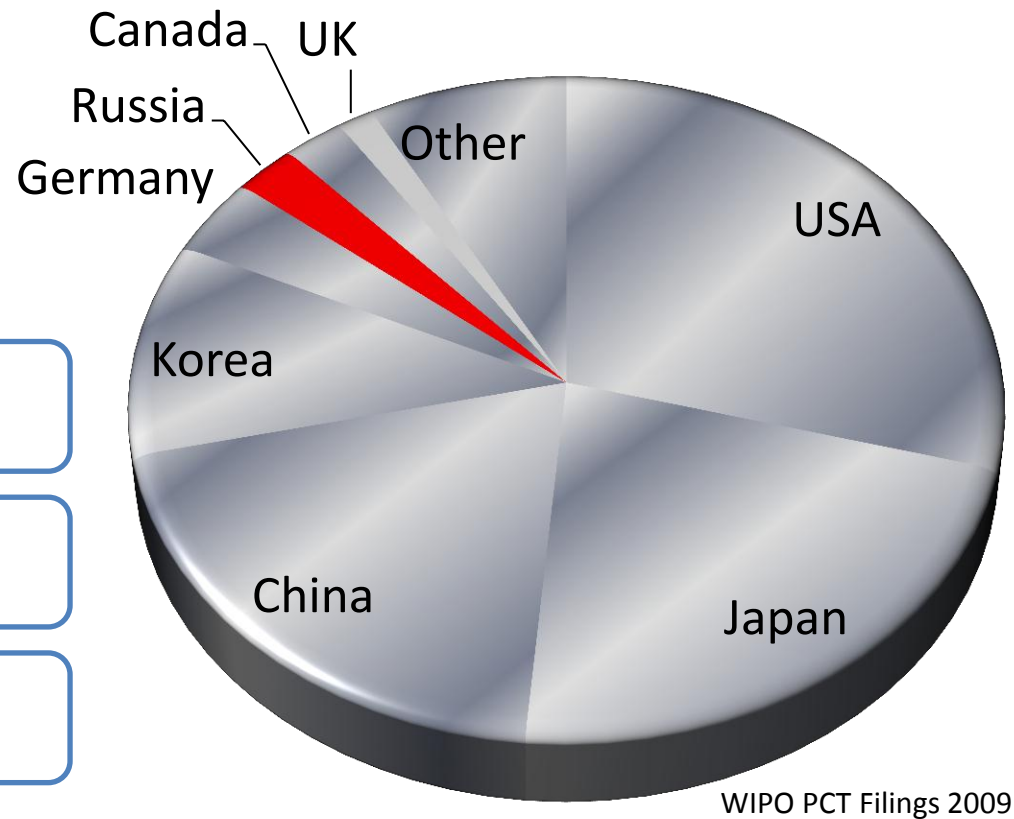
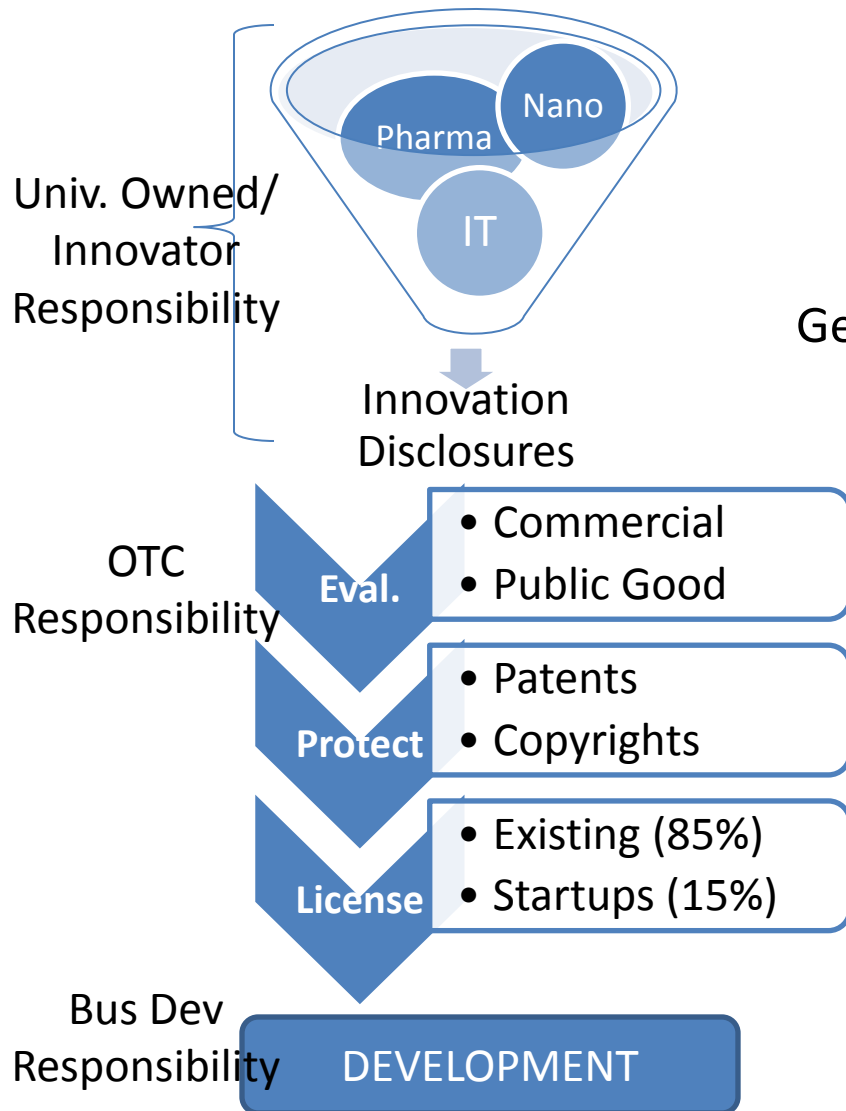
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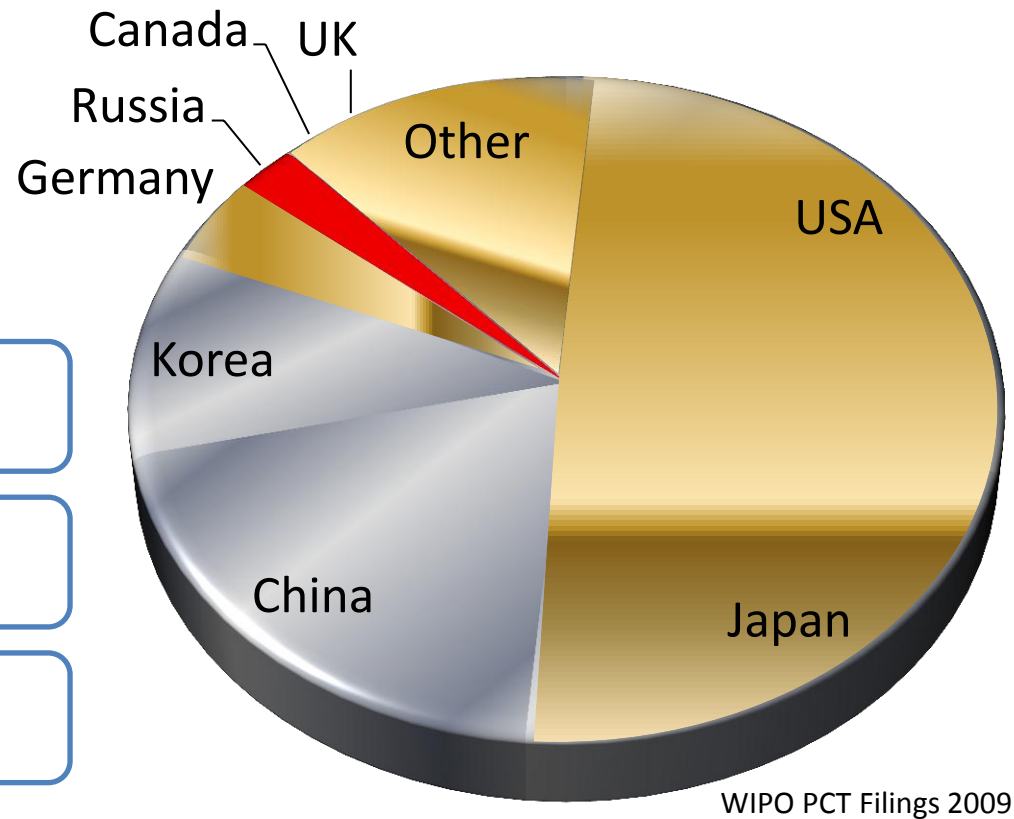
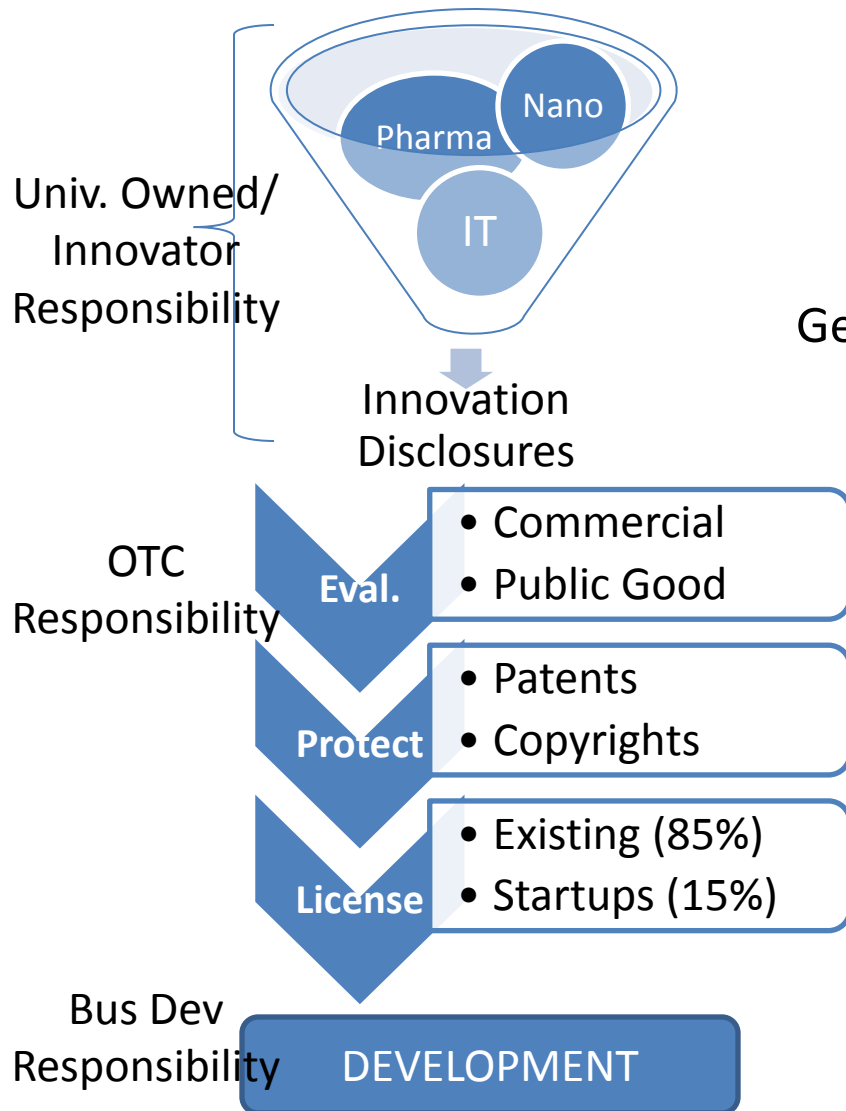
for Russia x 1/3

Standard Model



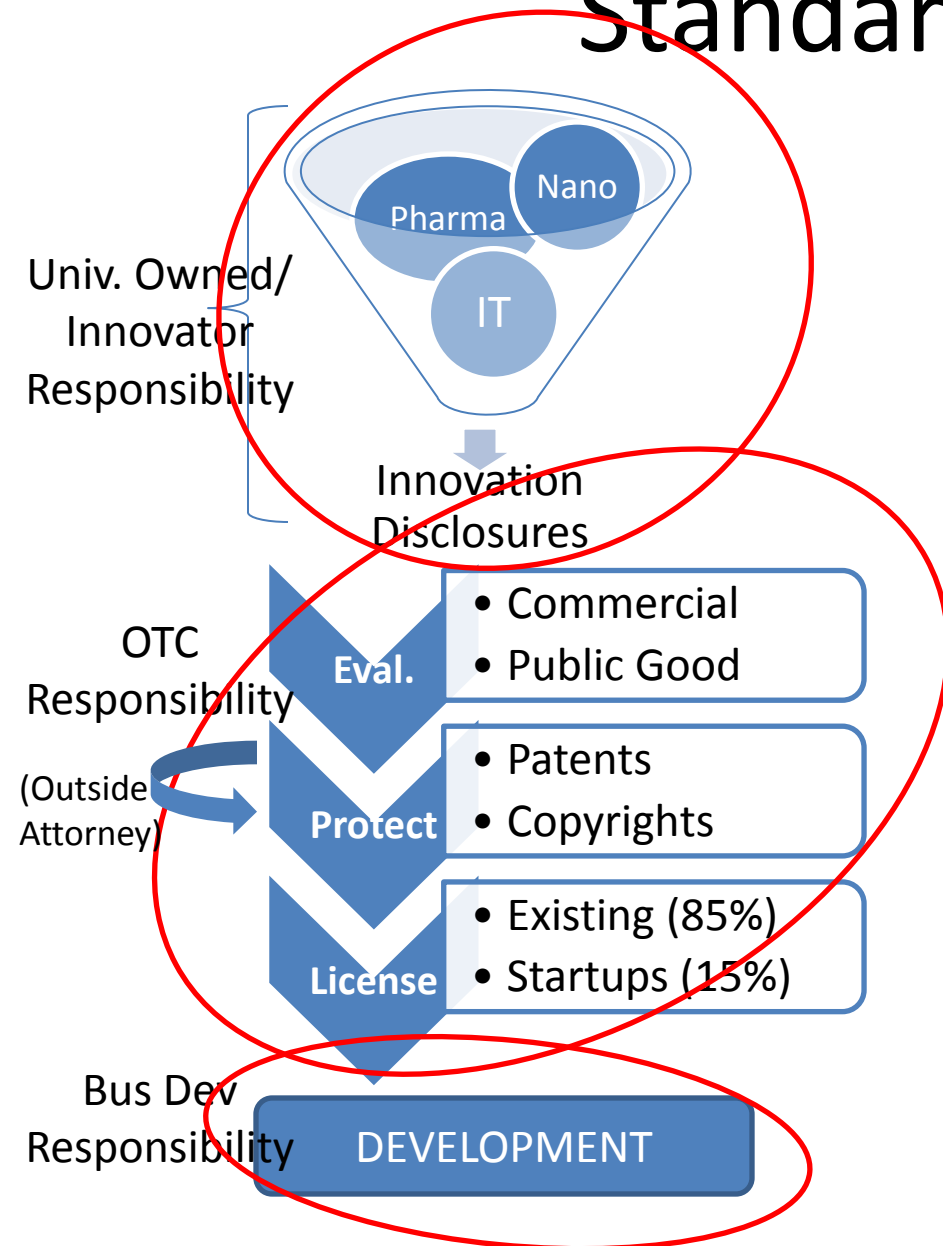
OTC=Office of Technology Commercialization

Standard Model



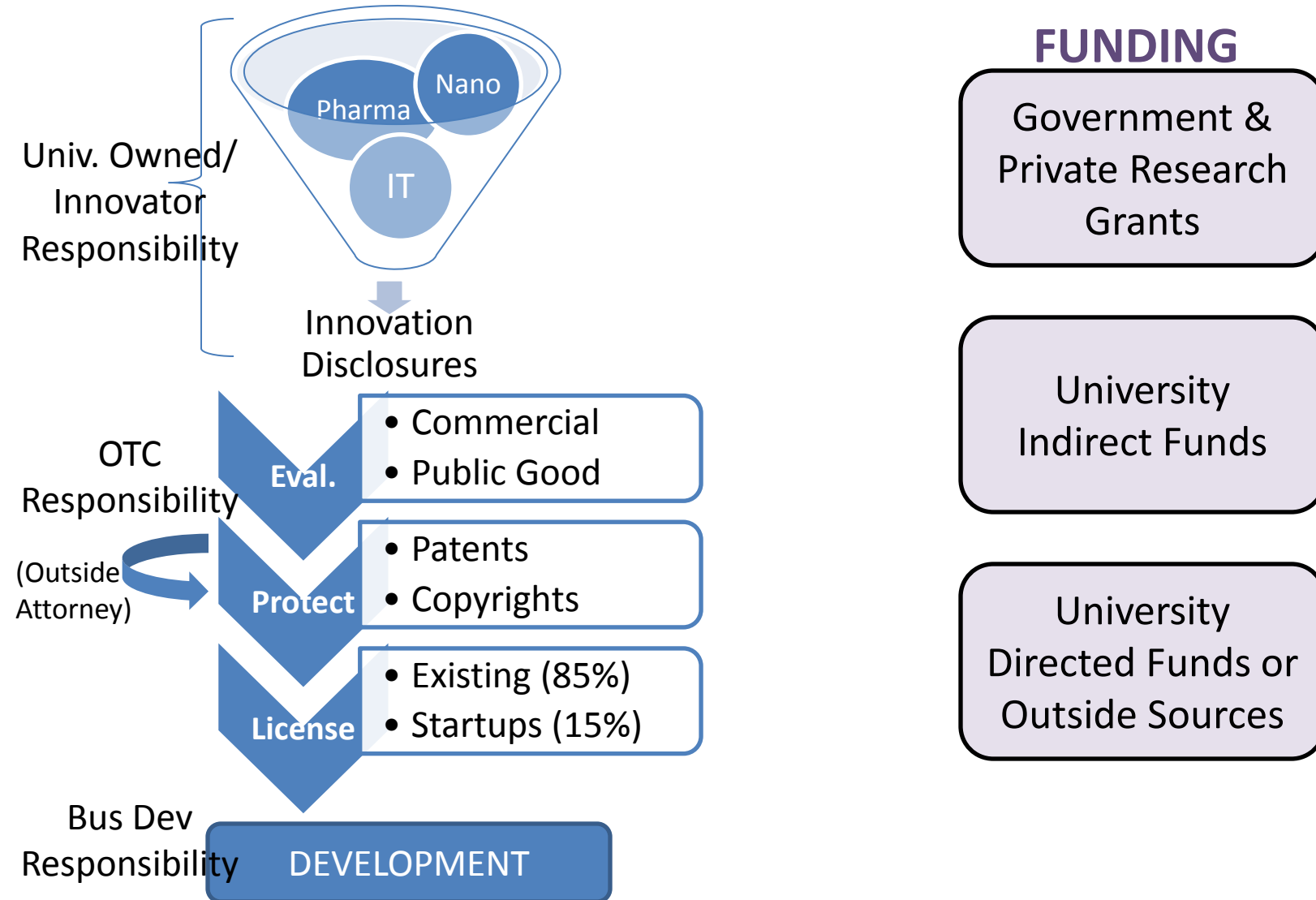
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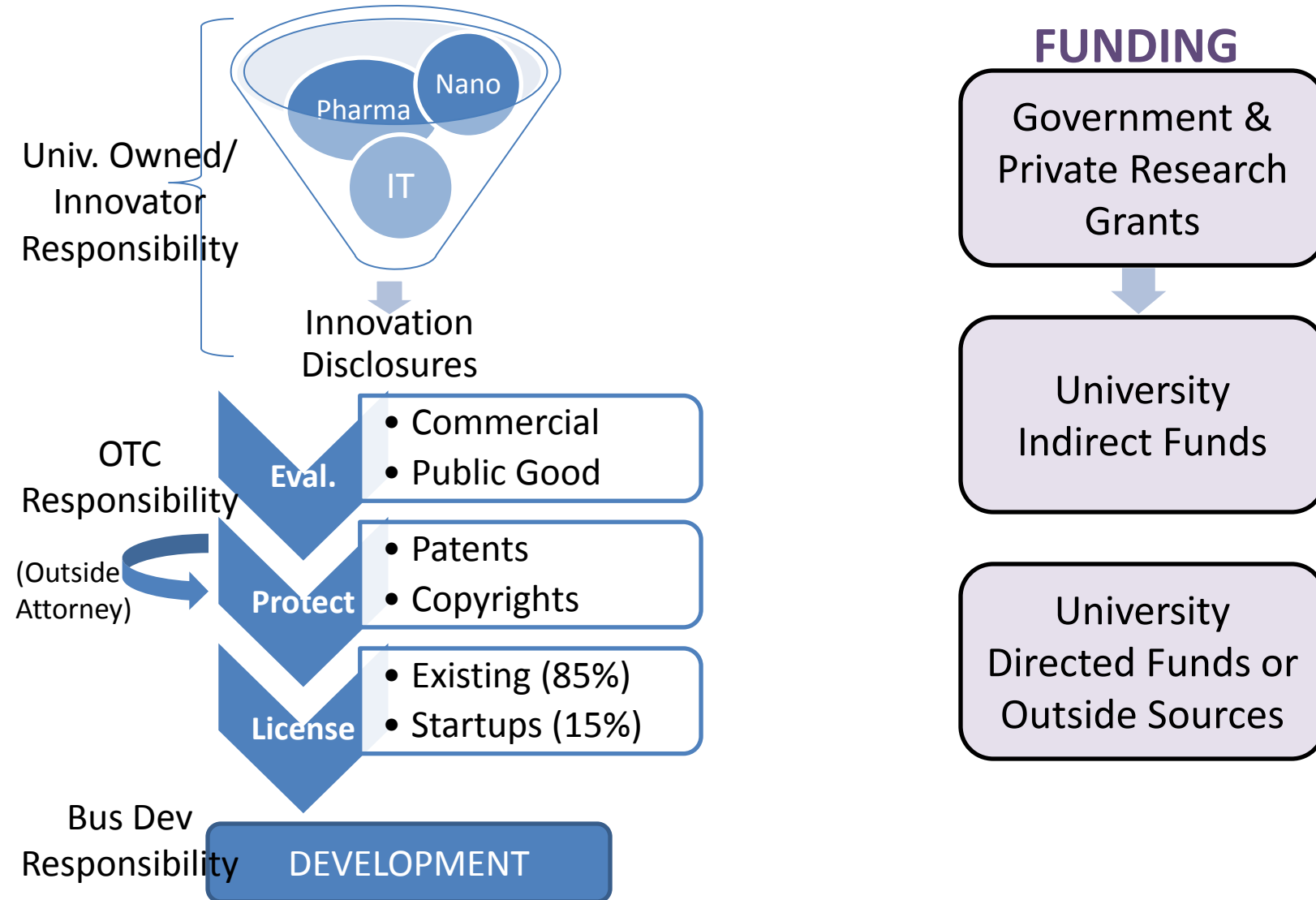


OTC=Office of Technology
Commercialization

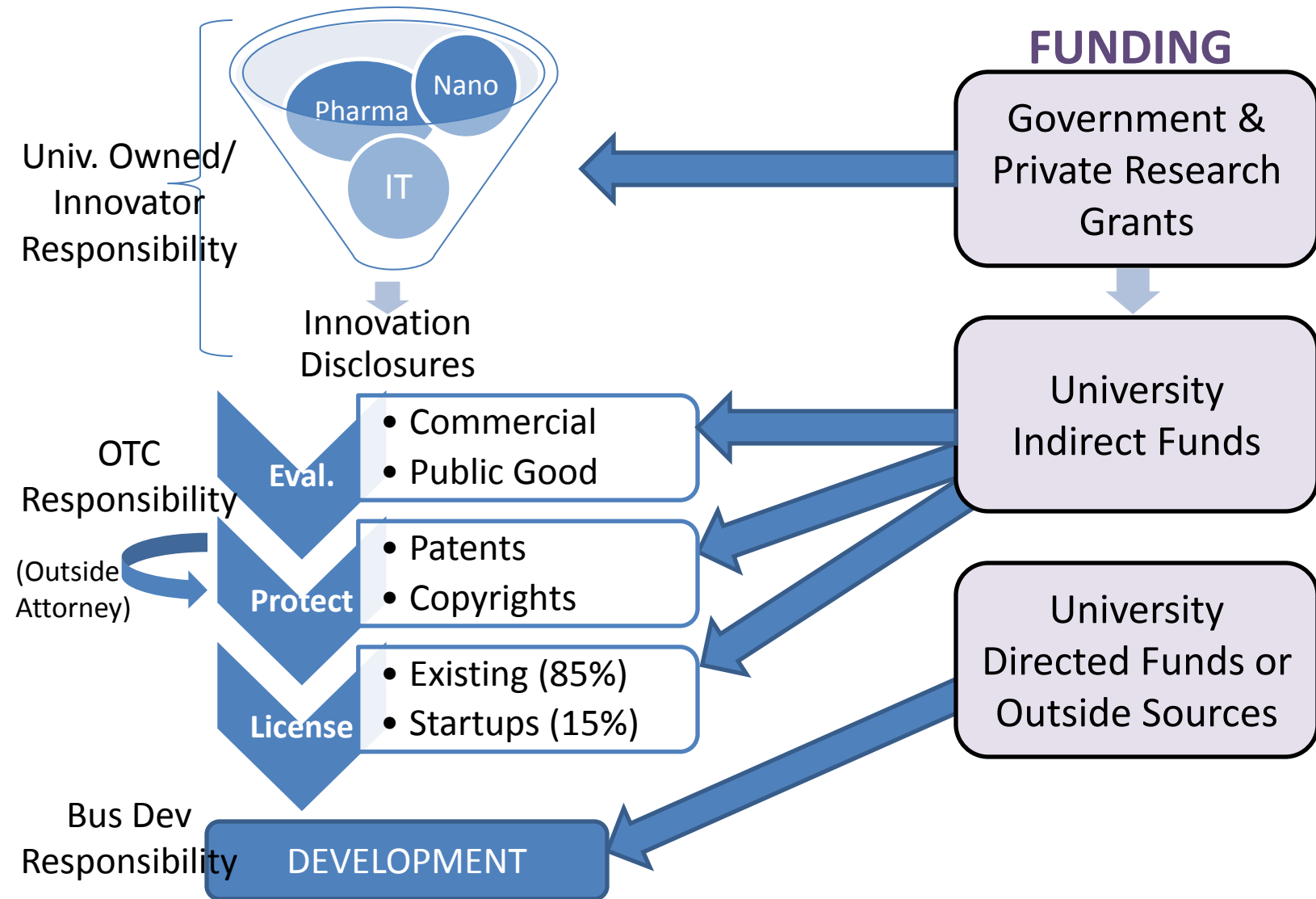
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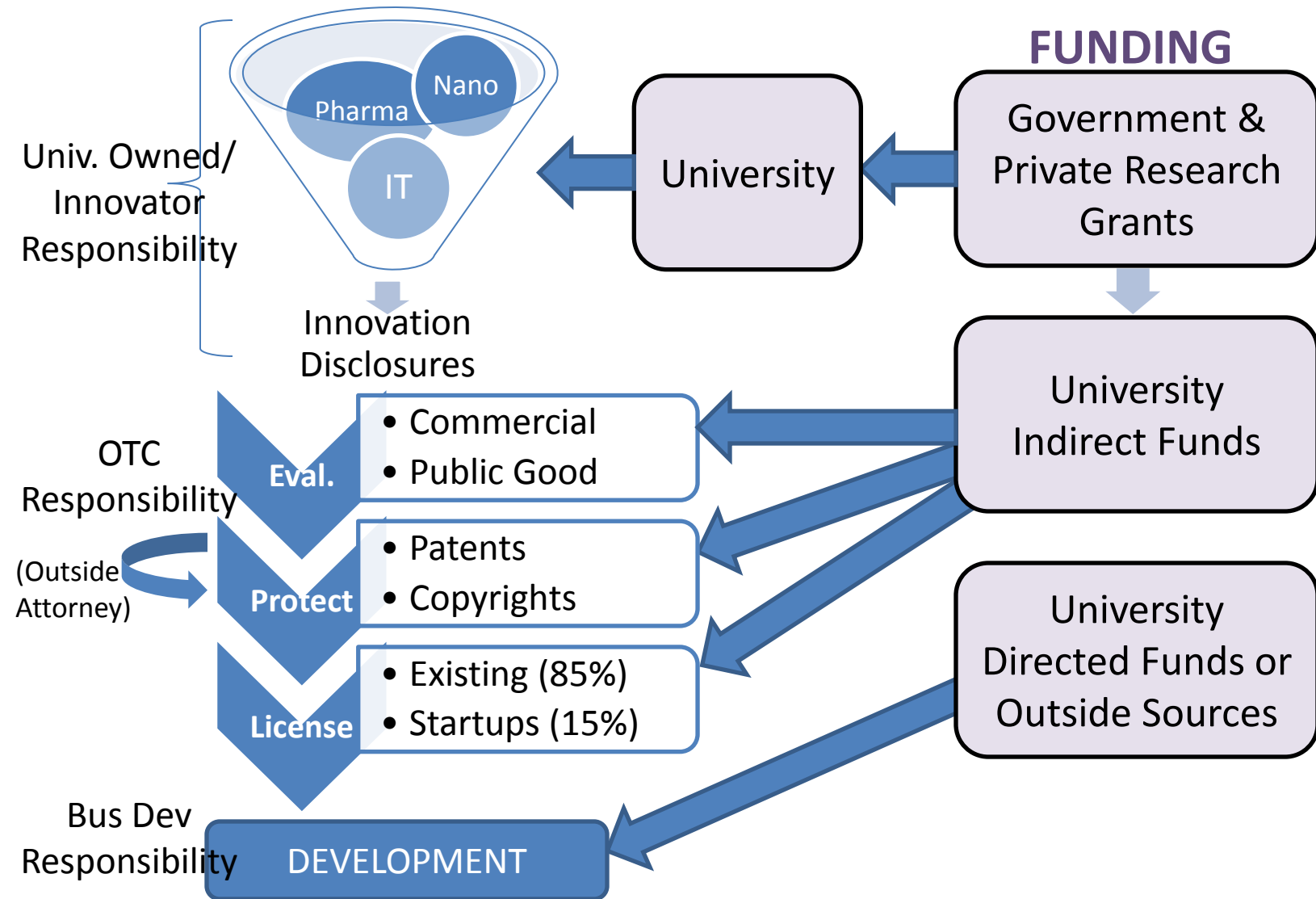
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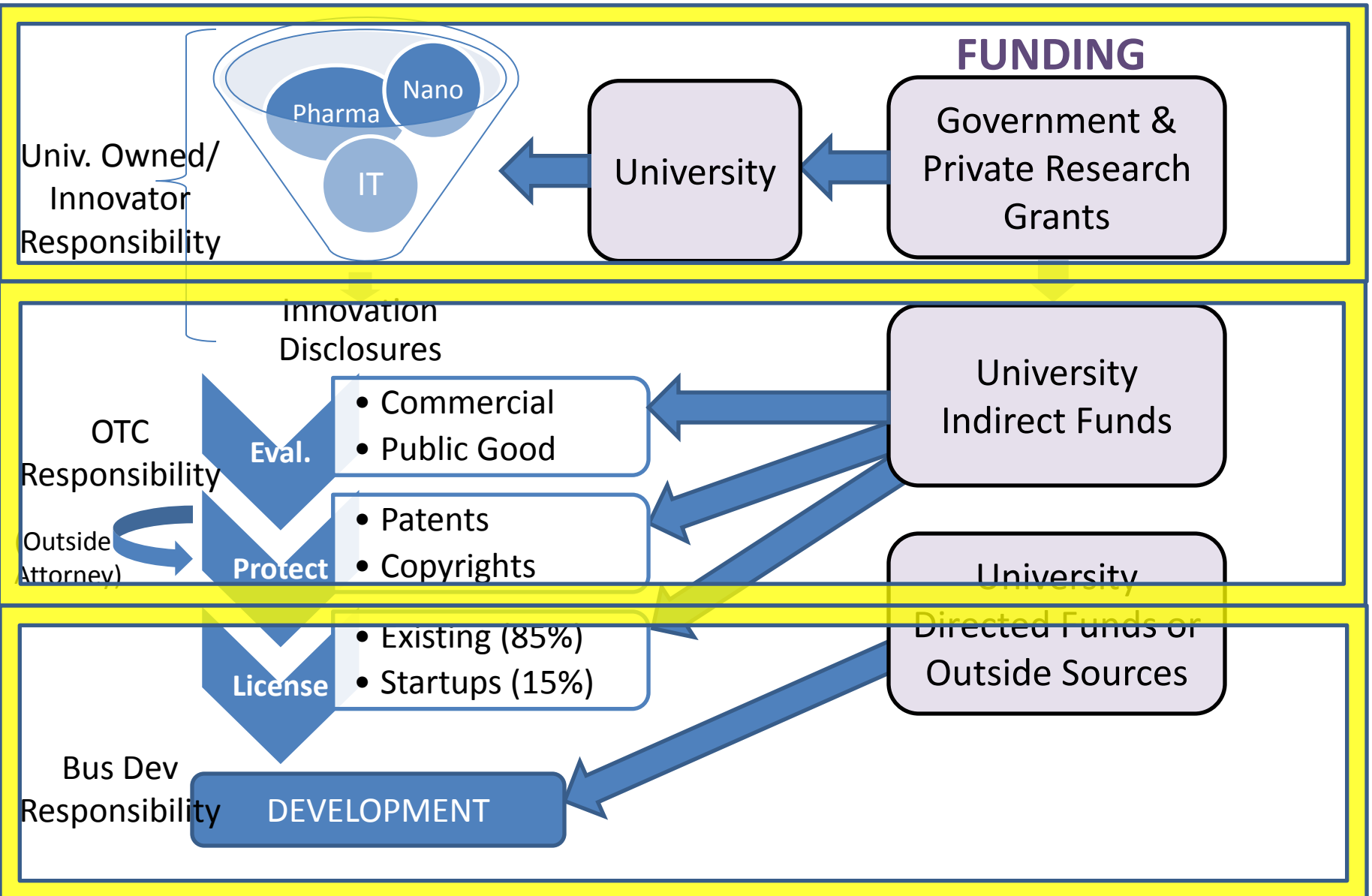
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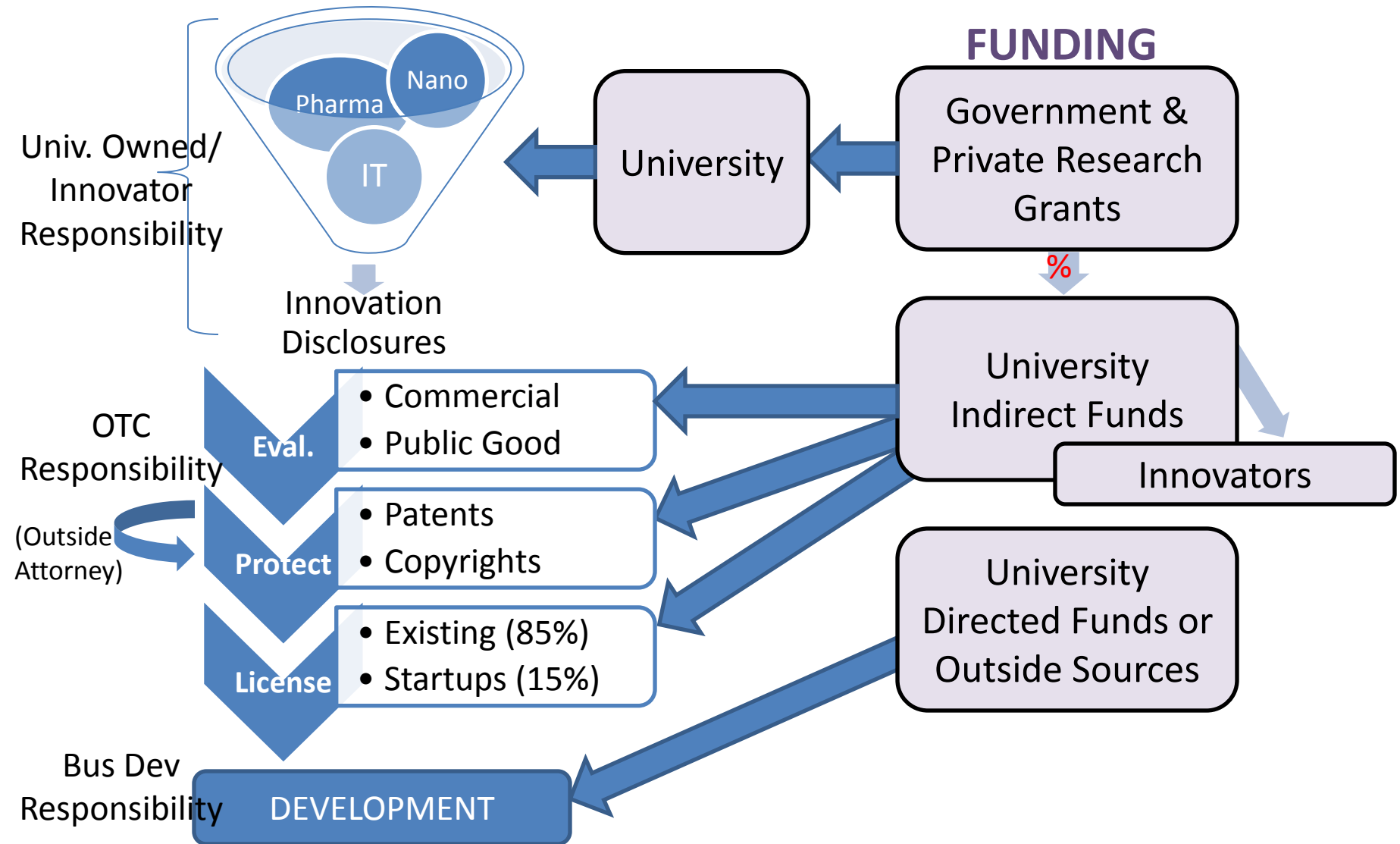
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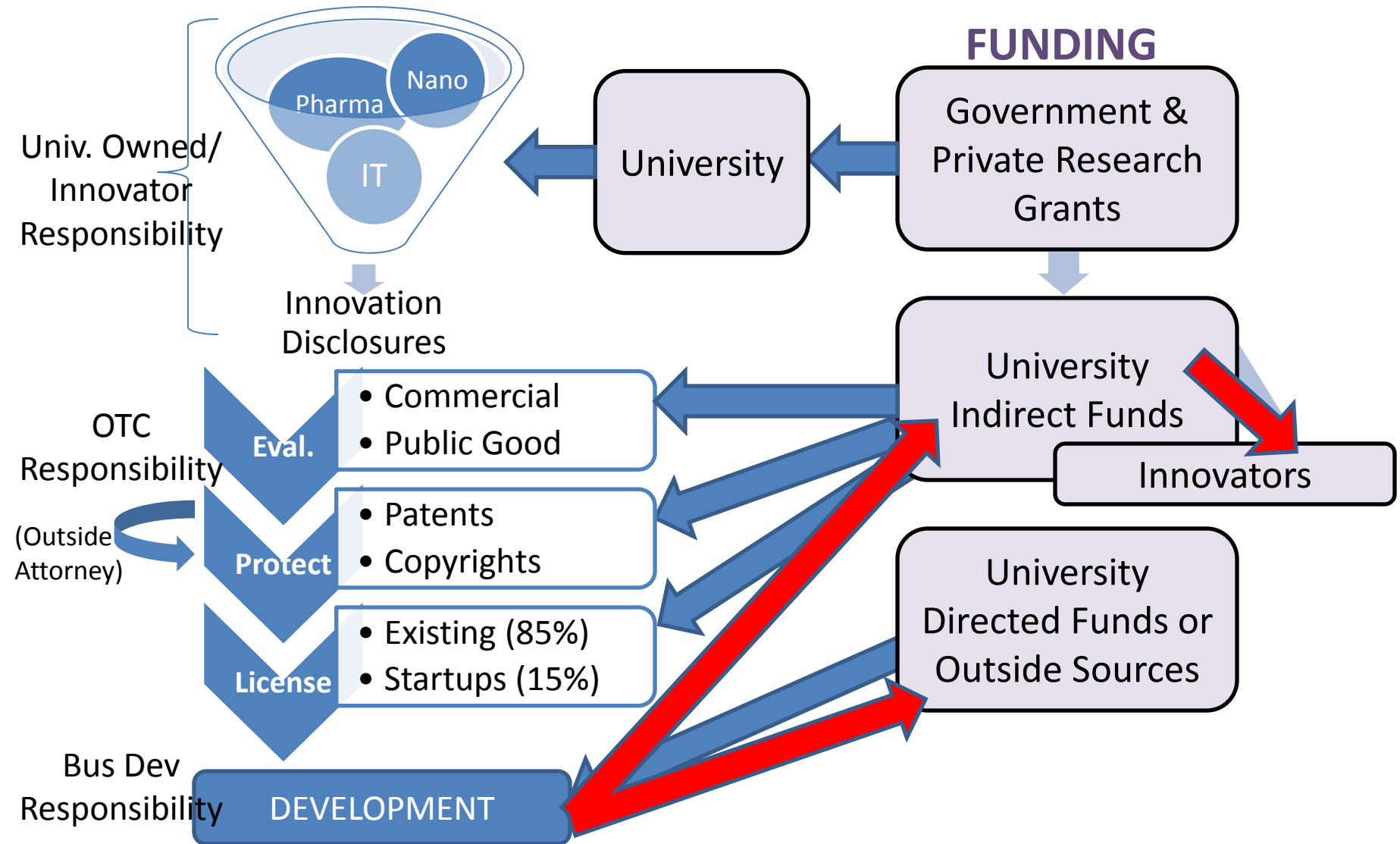
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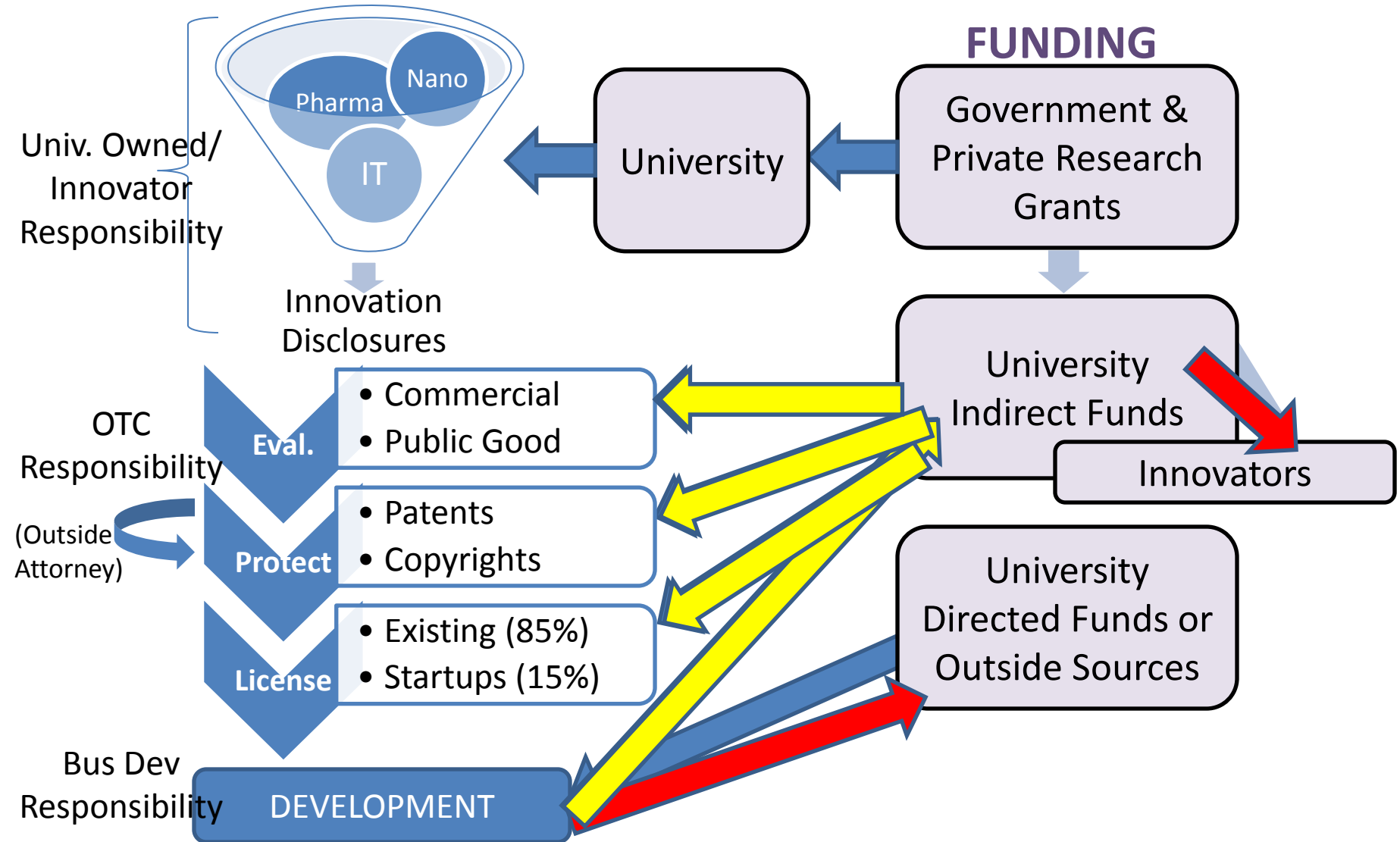
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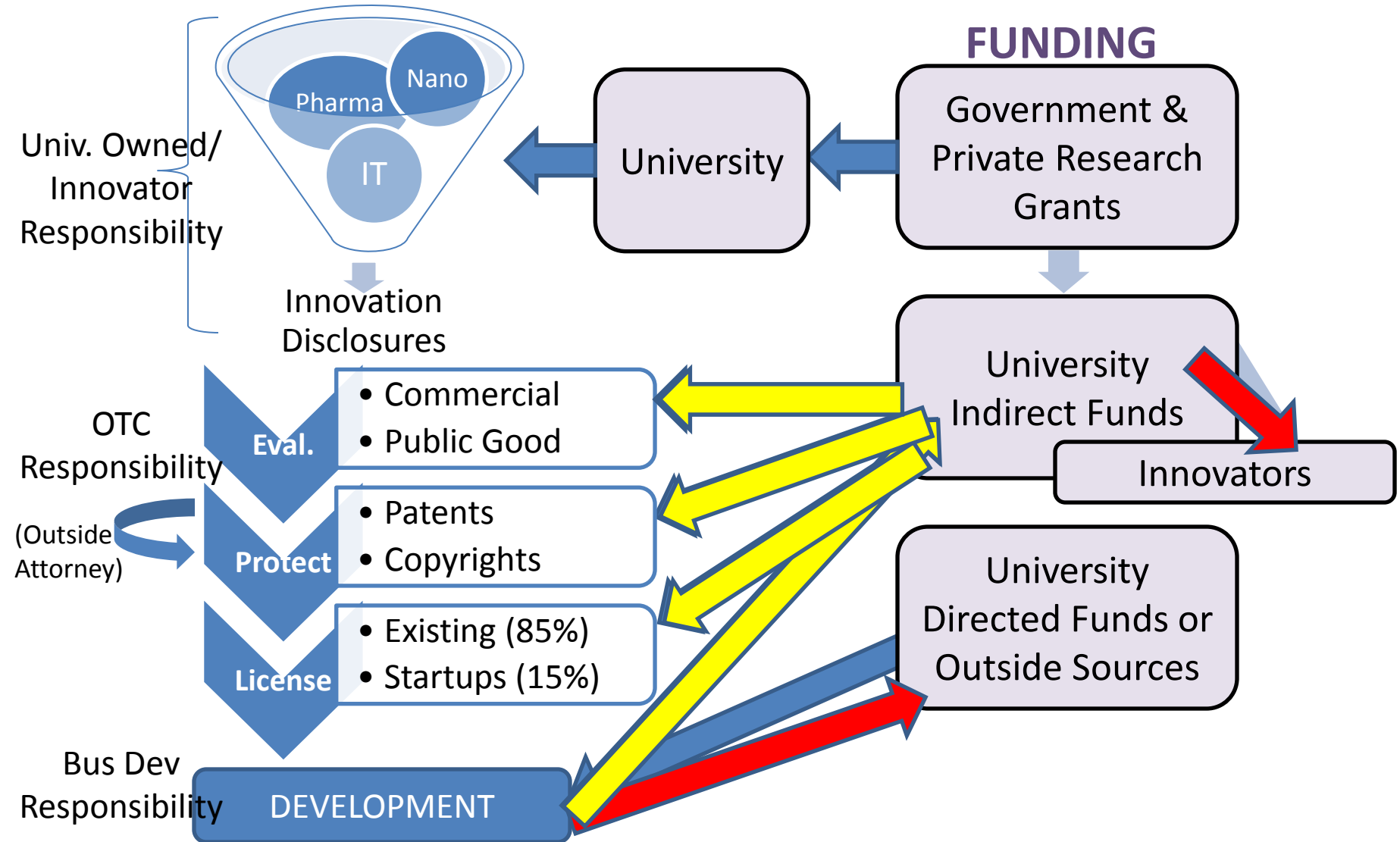
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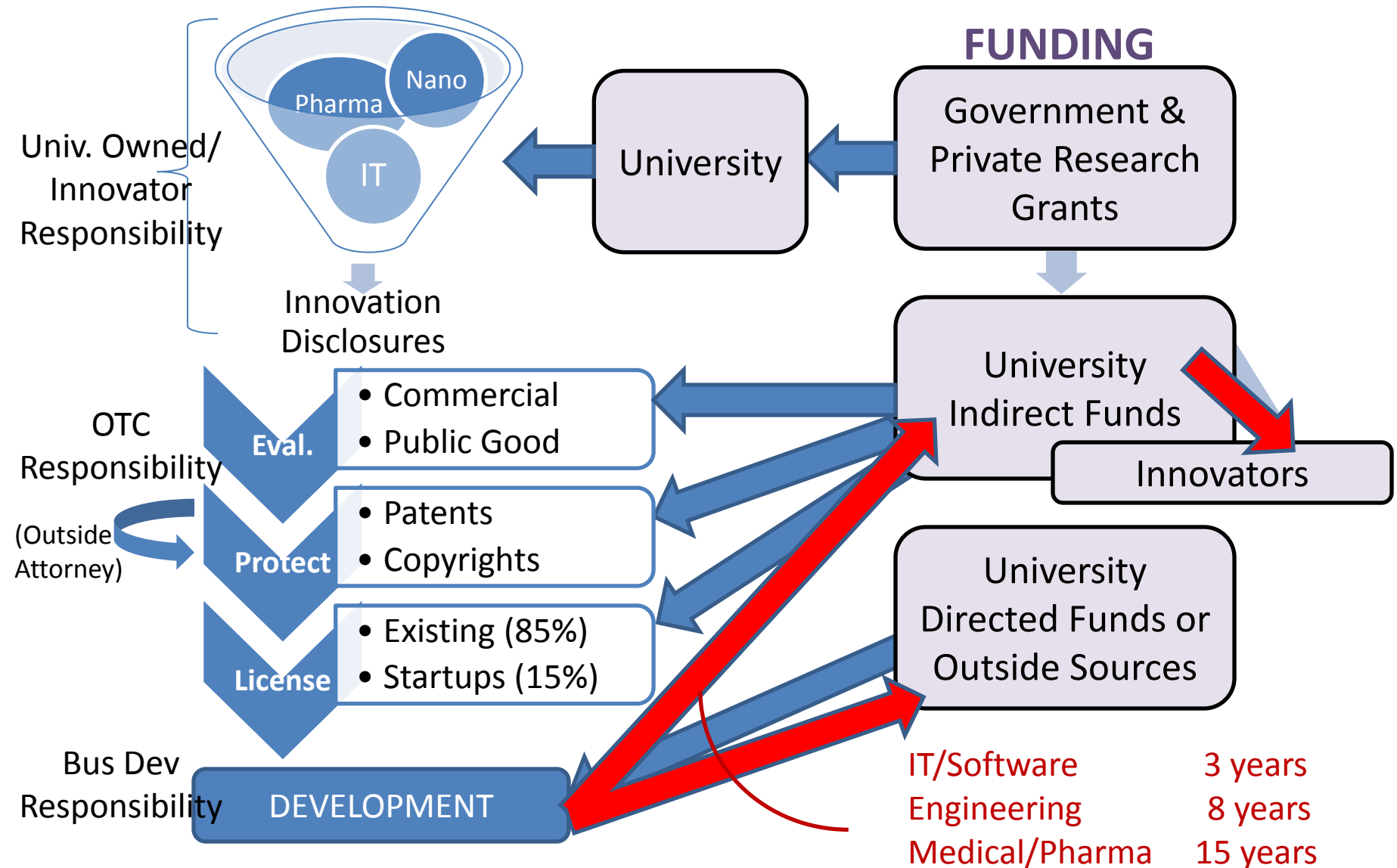
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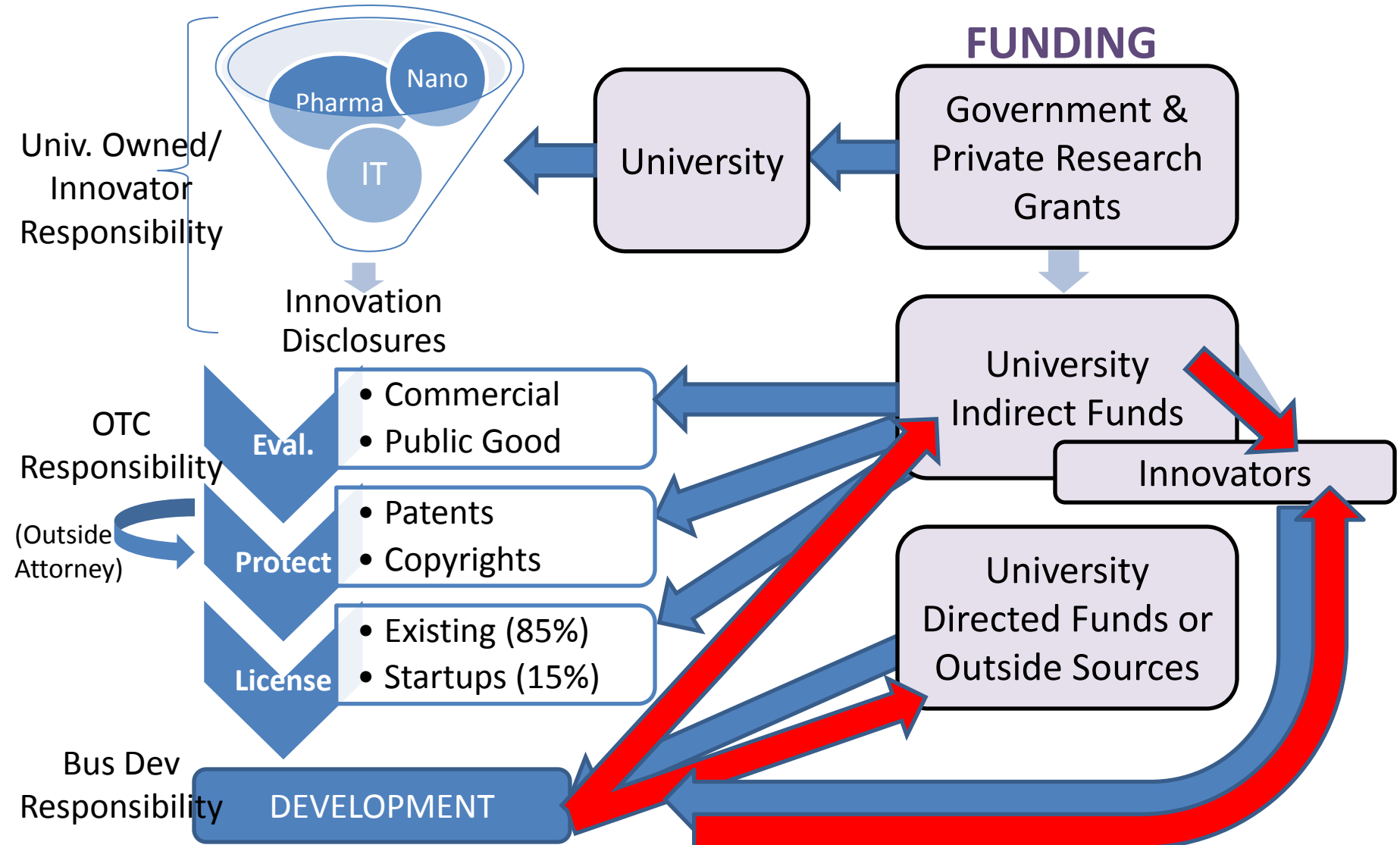
Standard Model



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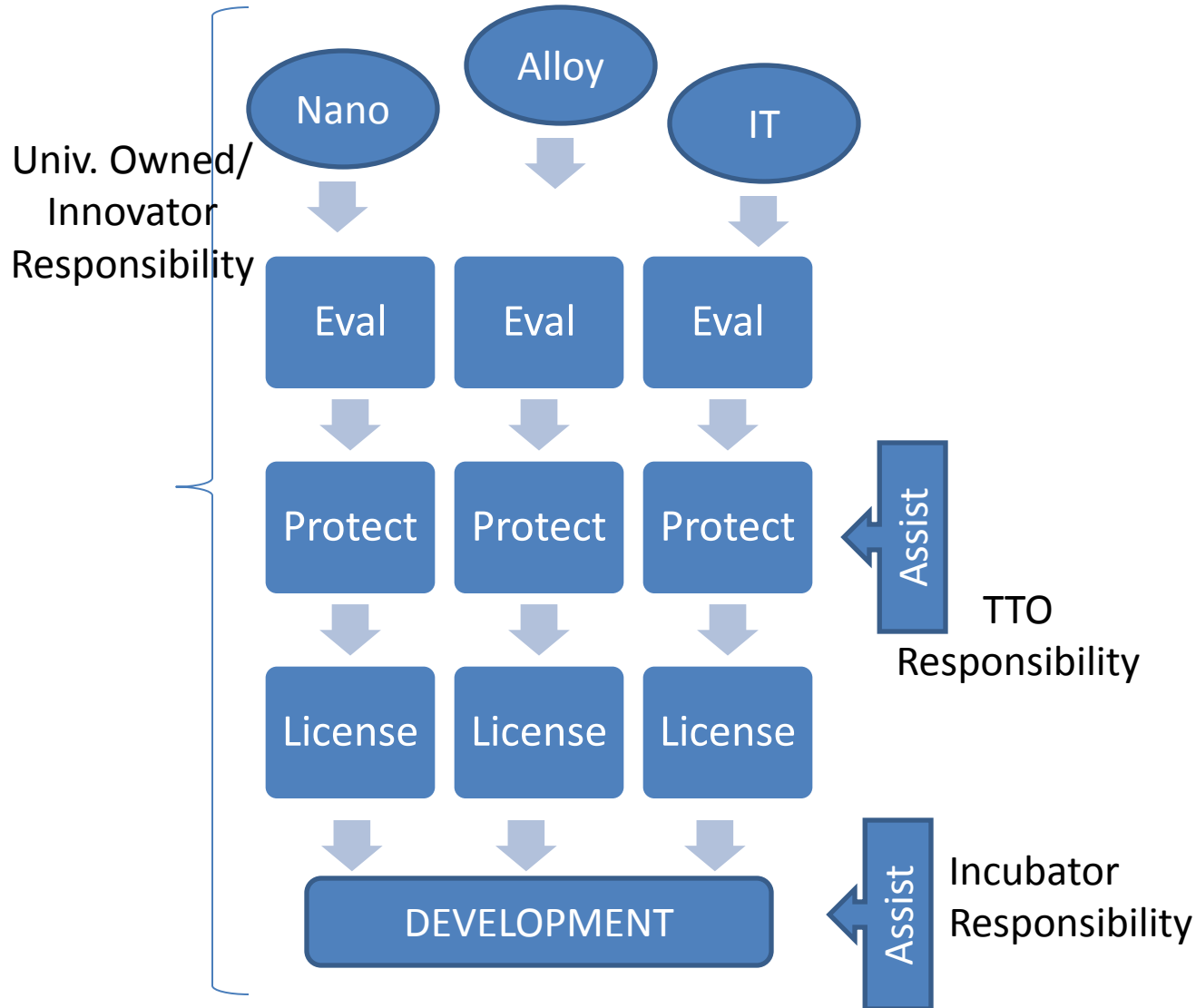


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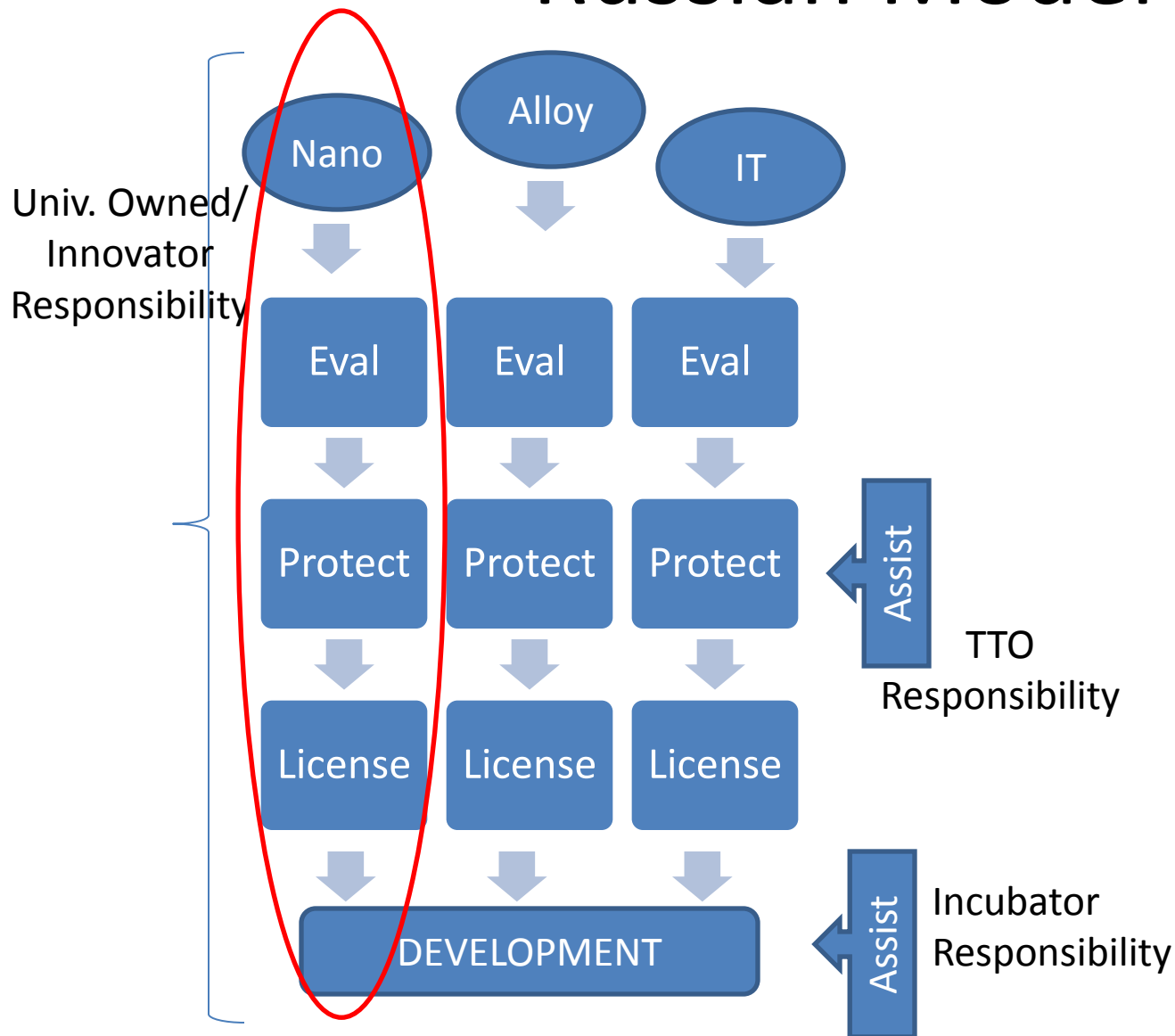


Russian Model

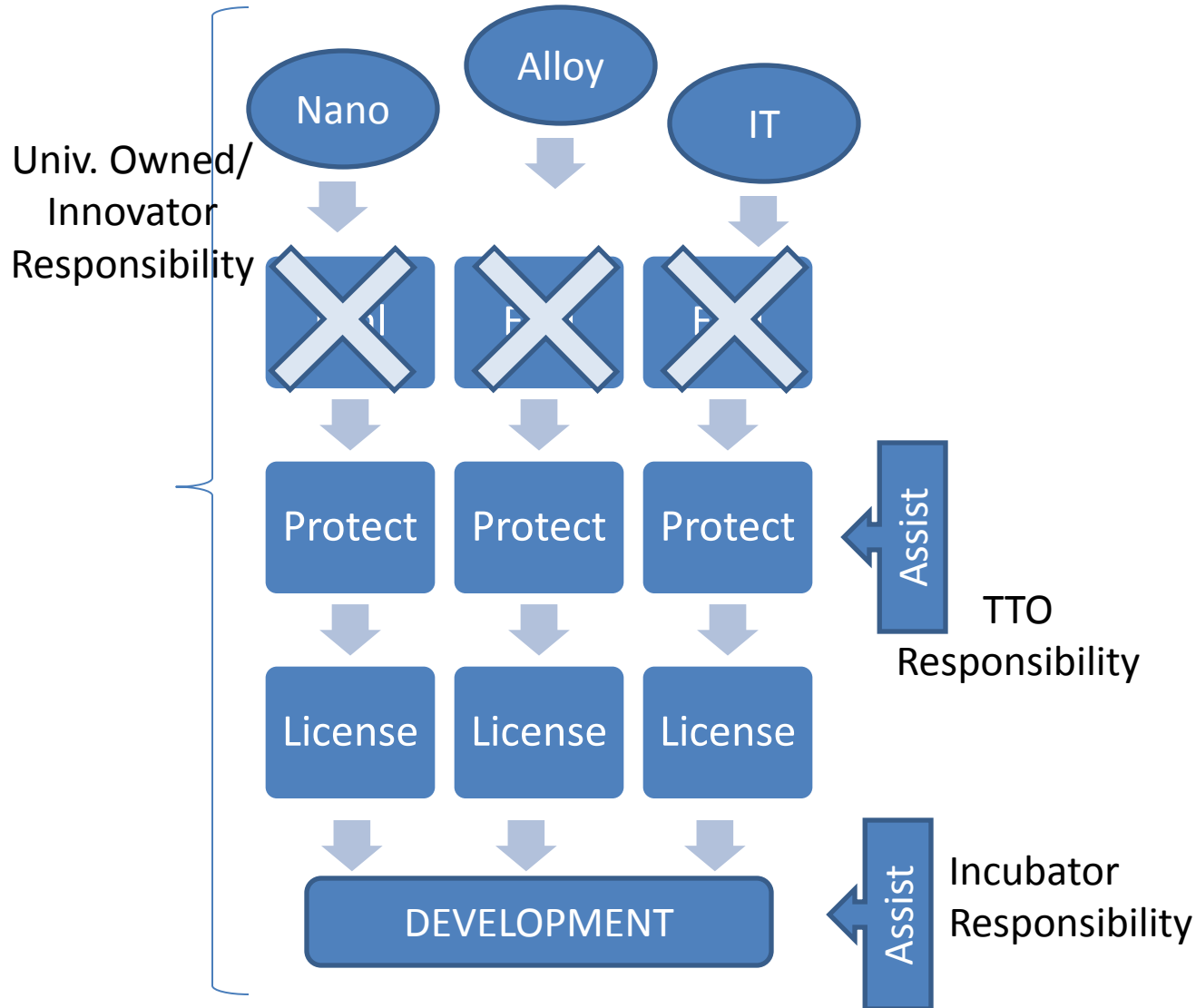
April 2011



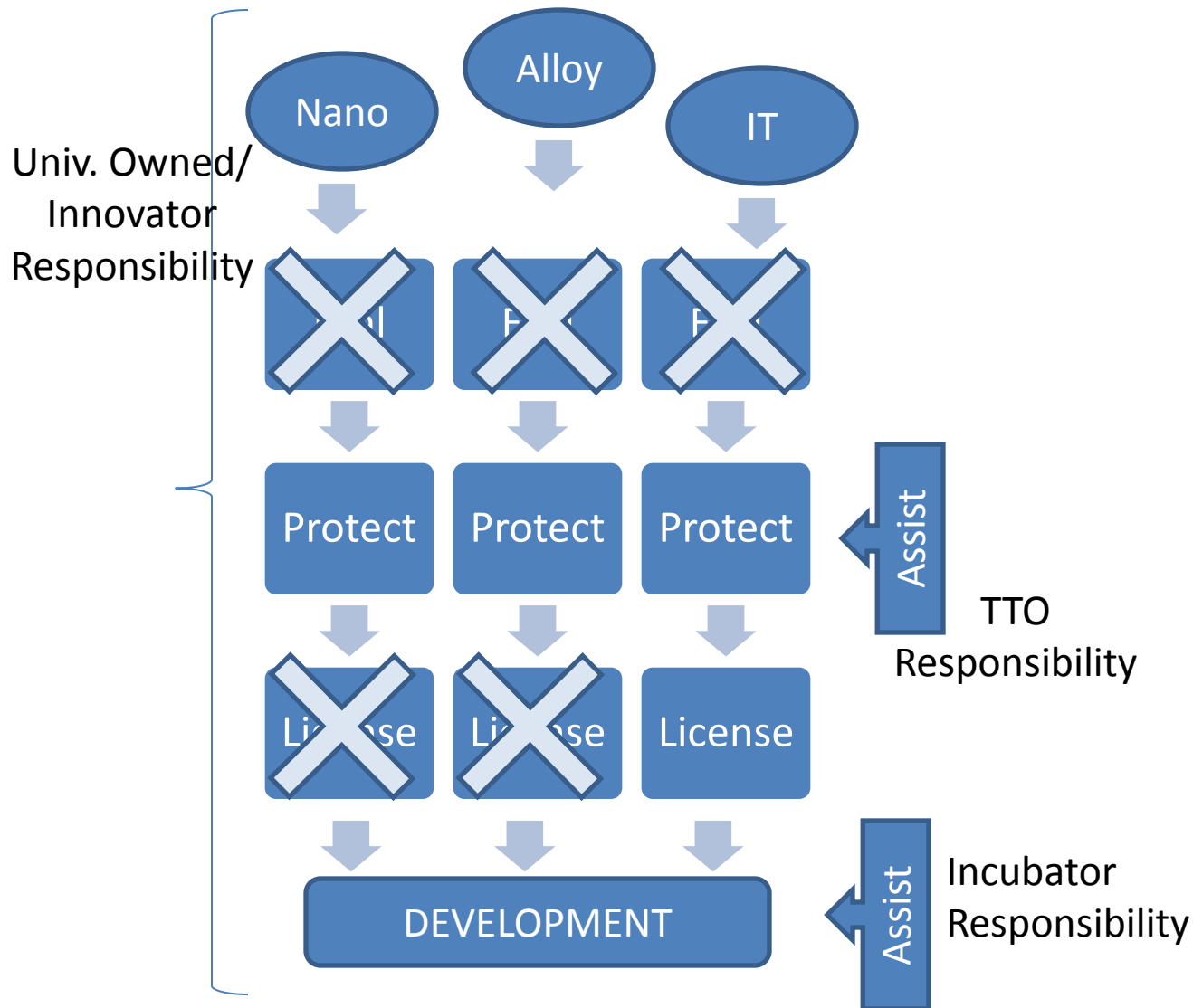
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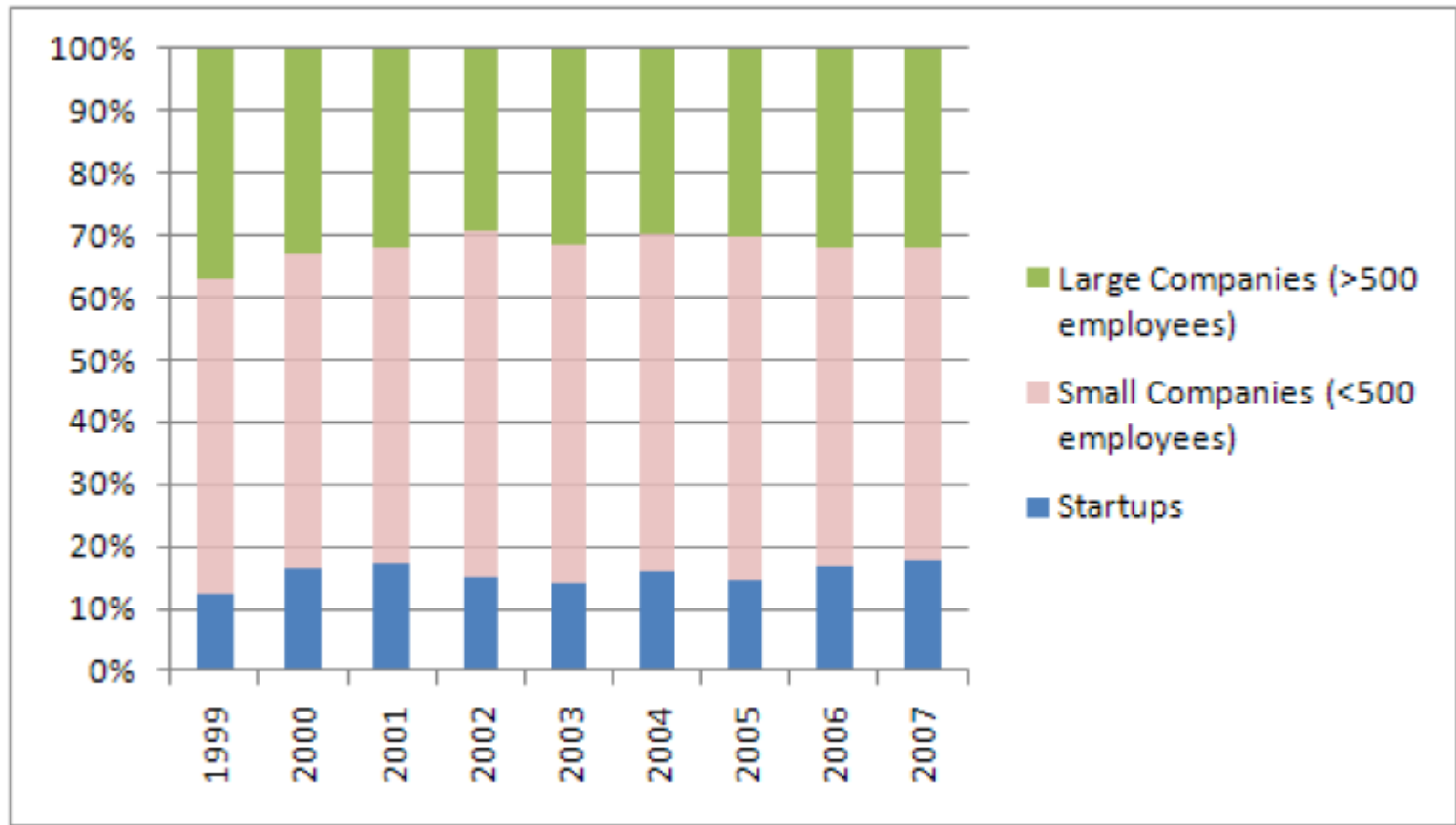
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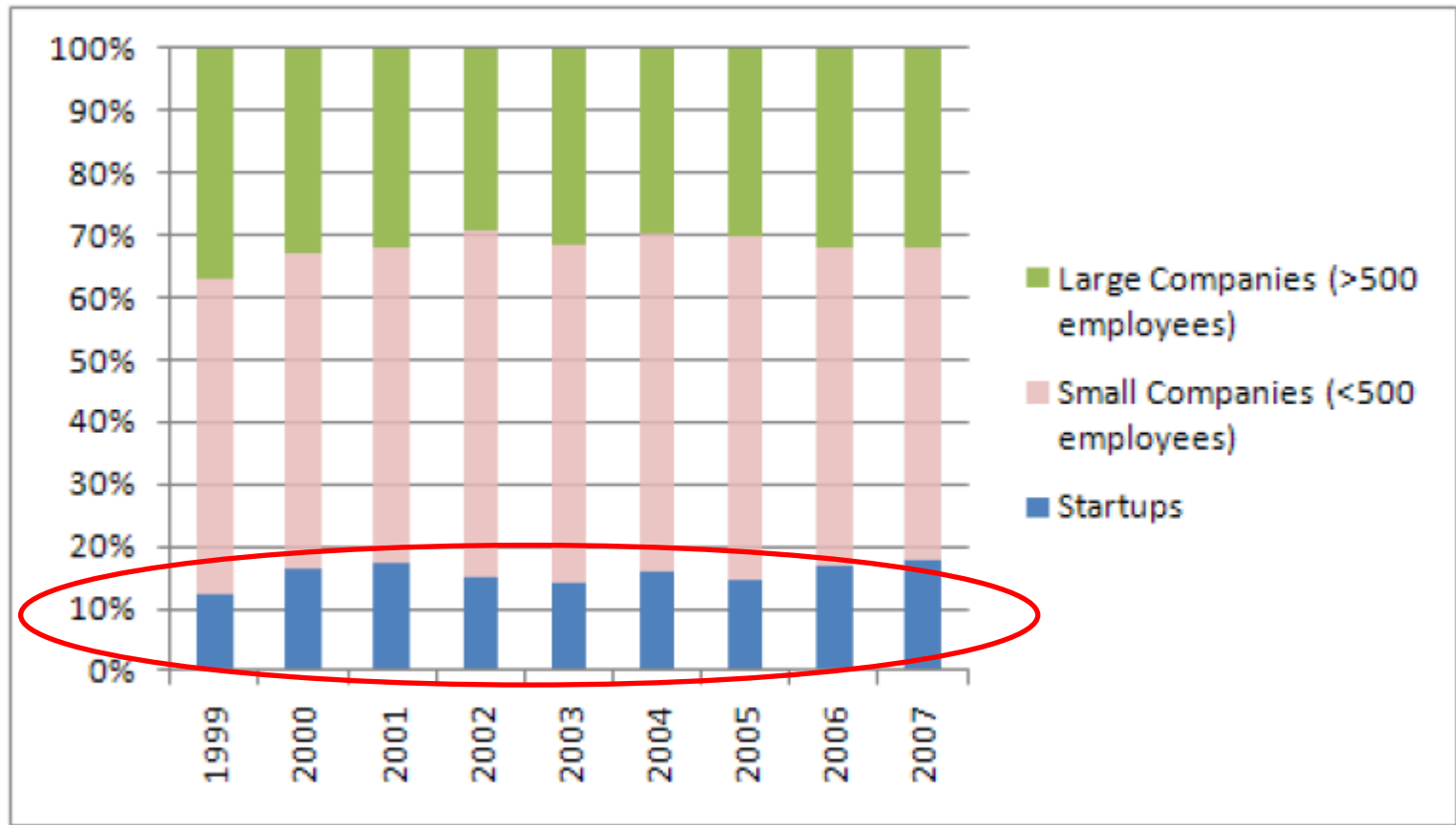
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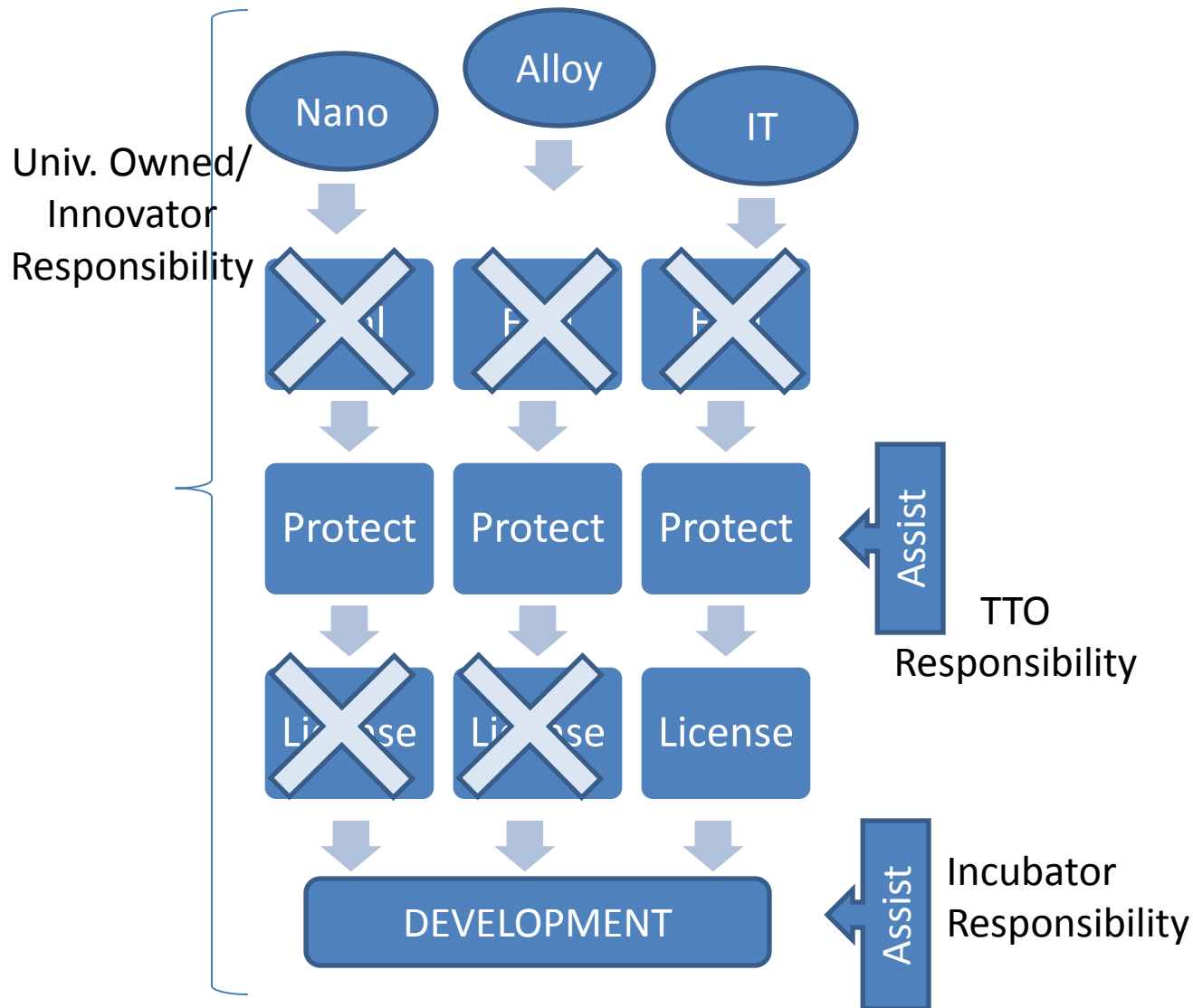
University Licensing



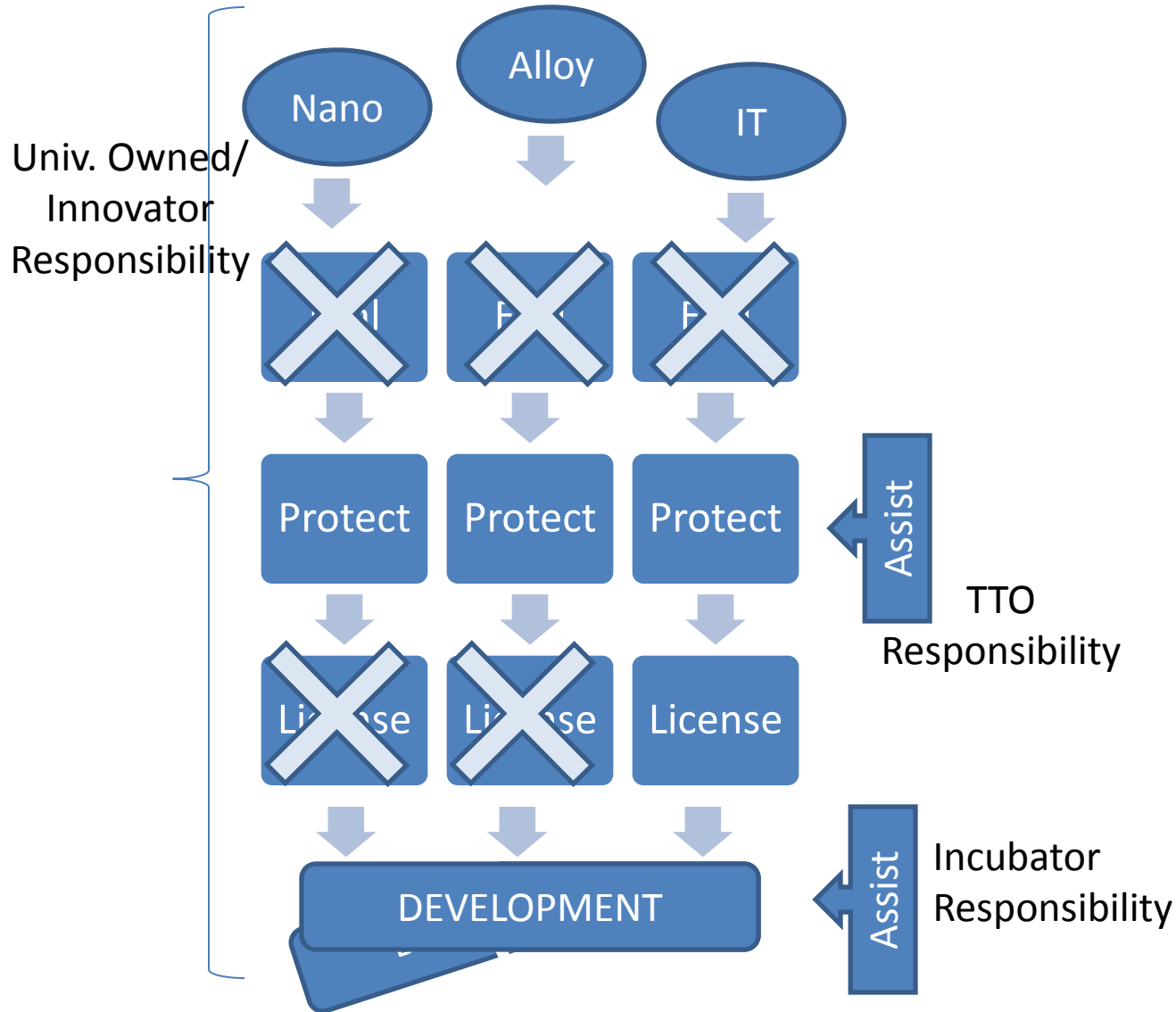
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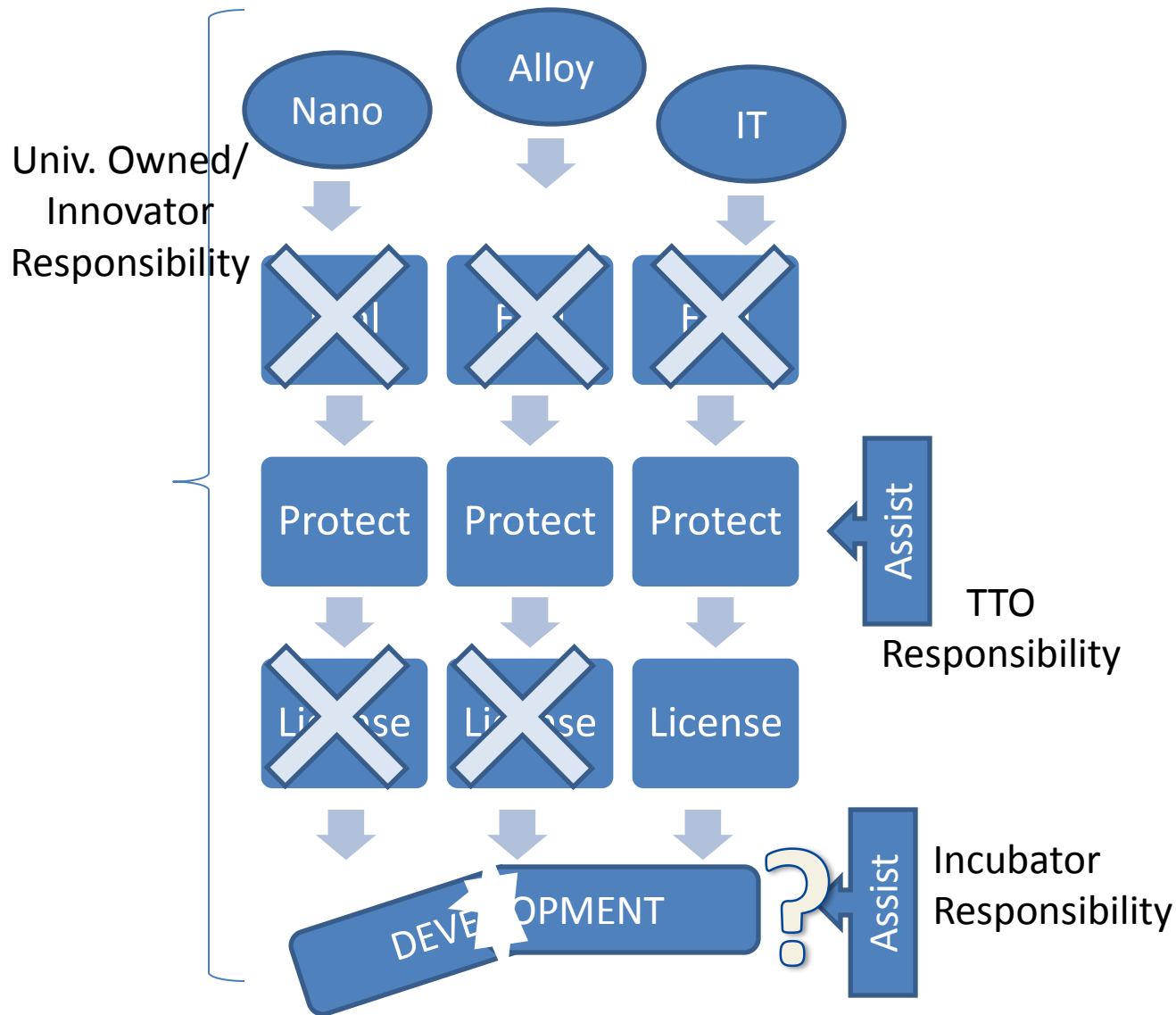
Russian Model



Russian Model



Russian Model



The diagram illustrates the responsibilities of different stakeholders in the commercialization of university research, organized into three main columns: Univ. Owned/Innovator Responsibility, TTO Responsibility, and Incubator Responsibility. The process flow is as follows:

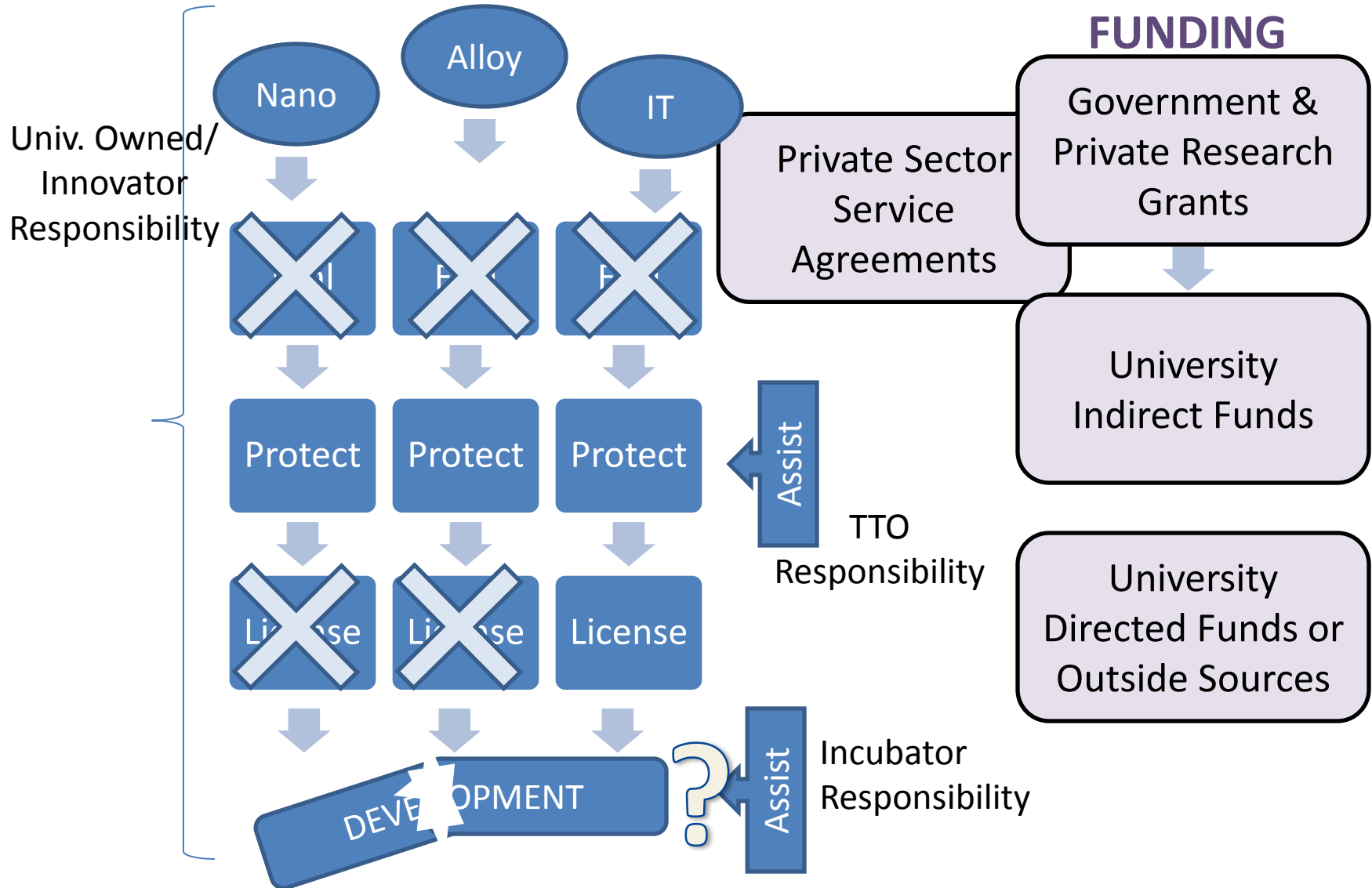
- Univ. Owned/Innovator Responsibility:**
 - Starts with three technology types: Nano, Alloy, and IT.
 - Each technology type leads to a 'Protect' (patent) step.
 - From 'Protect', the process moves to 'License' (commercialization).
 - The 'License' step for Nano and Alloy is marked with a red 'X', indicating a failure or issue.
 - The 'License' step for IT is successful.
 - The process concludes with 'DEVELOPMENT'.
- TTO Responsibility:**
 - Provides 'Assist' support for the 'Protect' and 'License' steps.
- Incubator Responsibility:**
 - Provides 'Assist' support for the 'License' step.
 - The 'DEVELOPMENT' step is highlighted with a red lightning bolt and a question mark, indicating a critical point of failure or uncertainty.
- FUNDING:**
 - Government & Private Research Grants lead to University Indirect Funds and University Directed Funds or Outside Sources.

Government &
Private Research
Grants

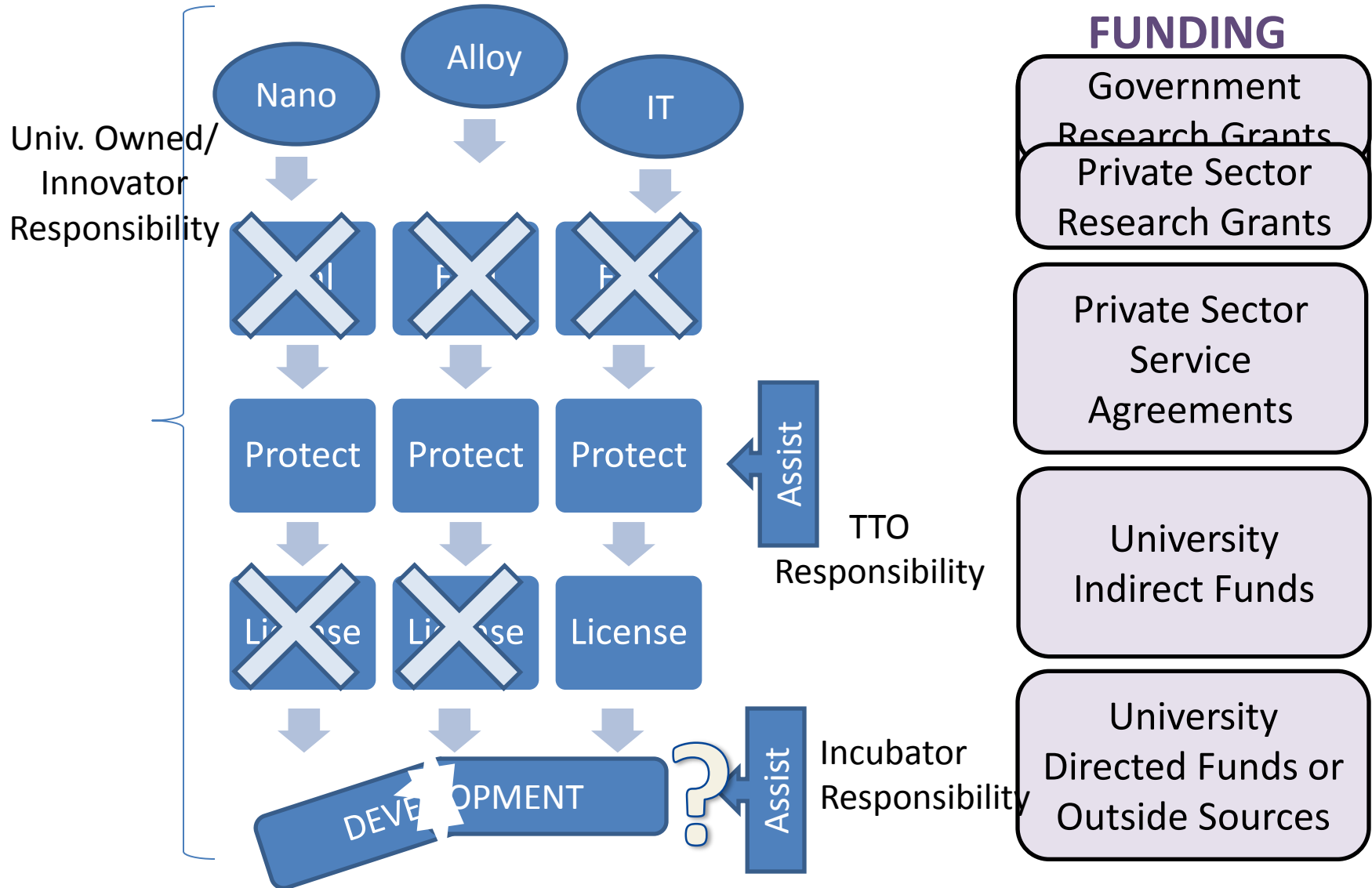
University
Indirect Funds

University
Directed Funds or
Outside Sources

Russian Model

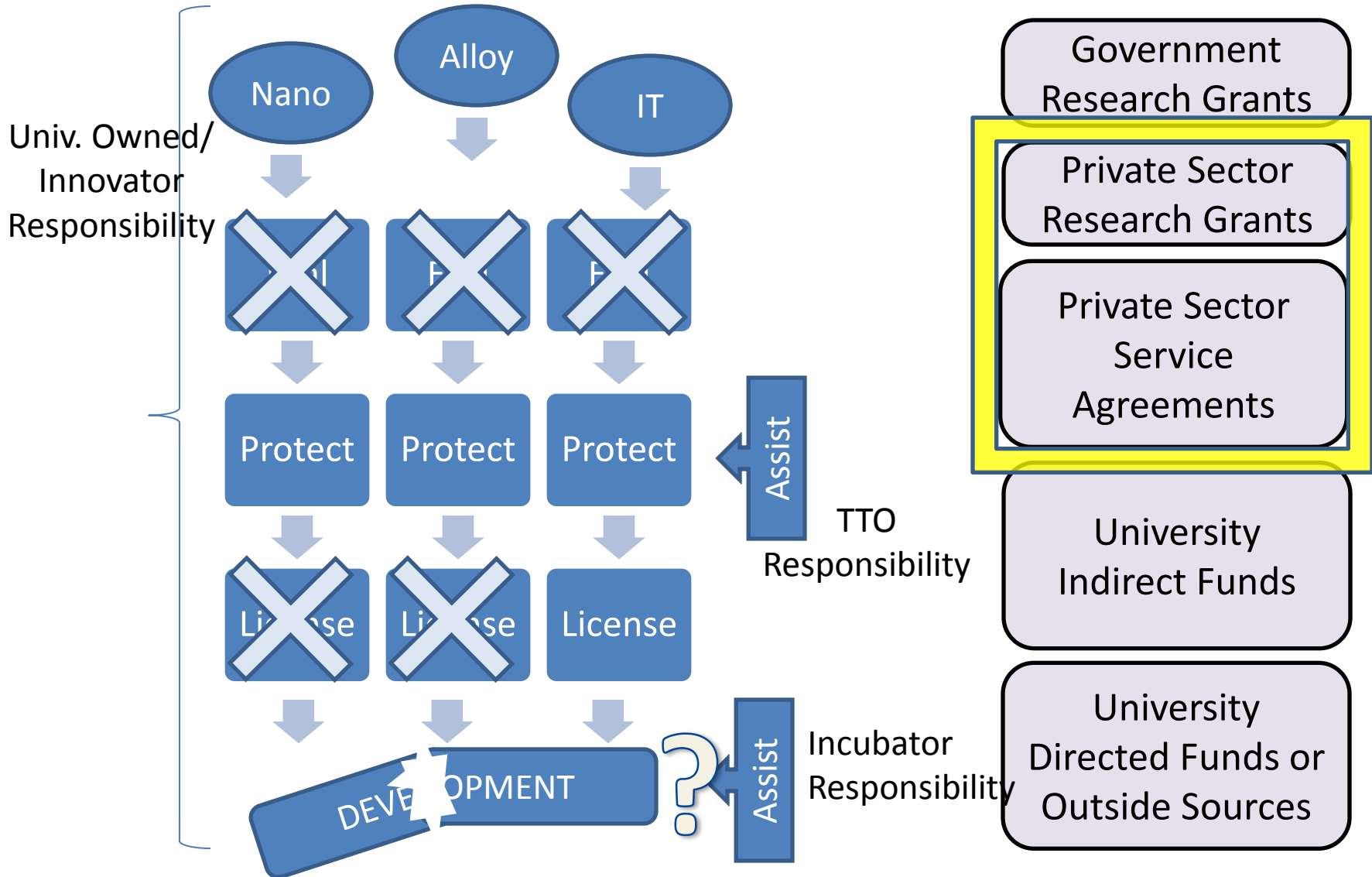


Russian Model



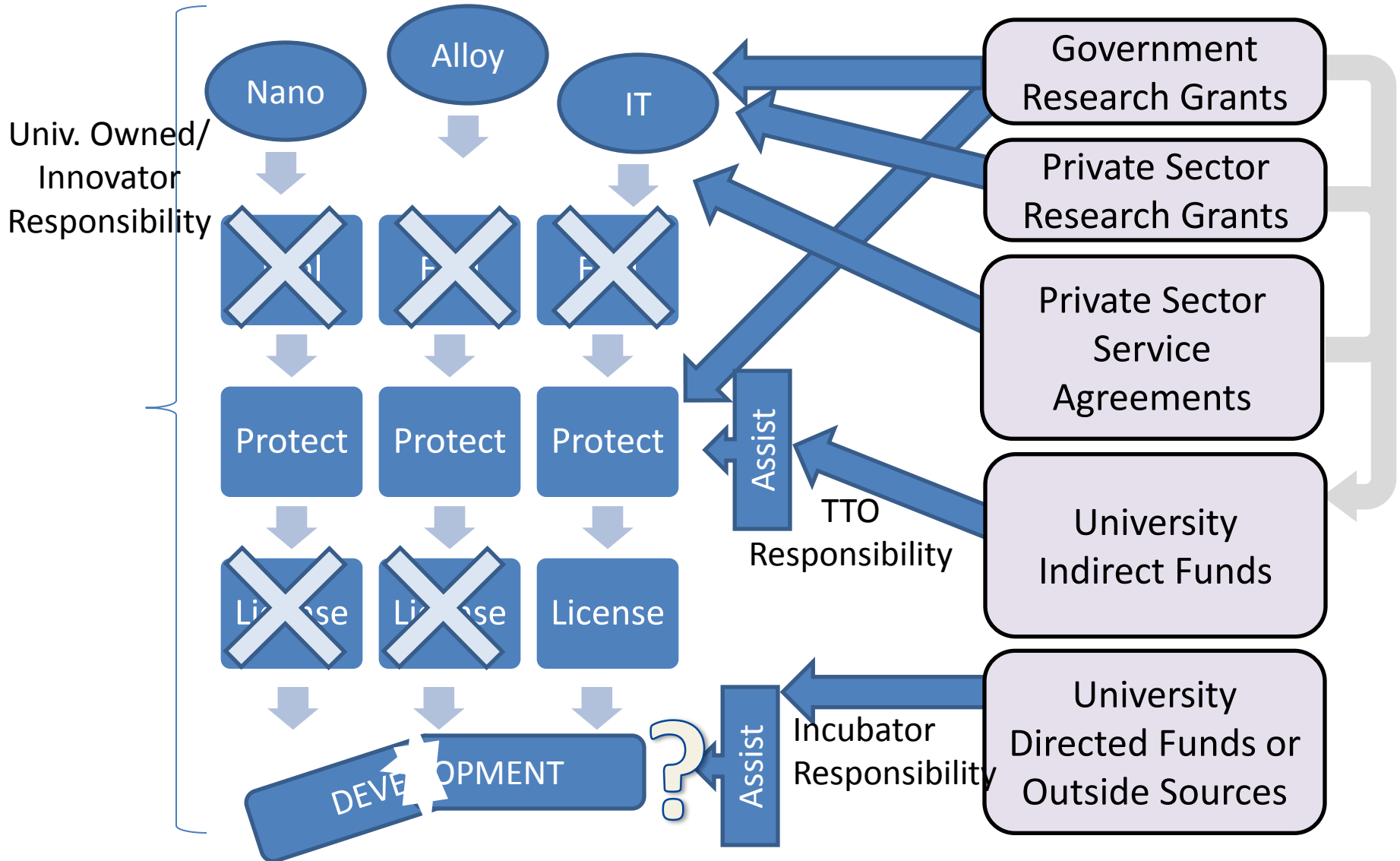
Russian Model

FUNDING



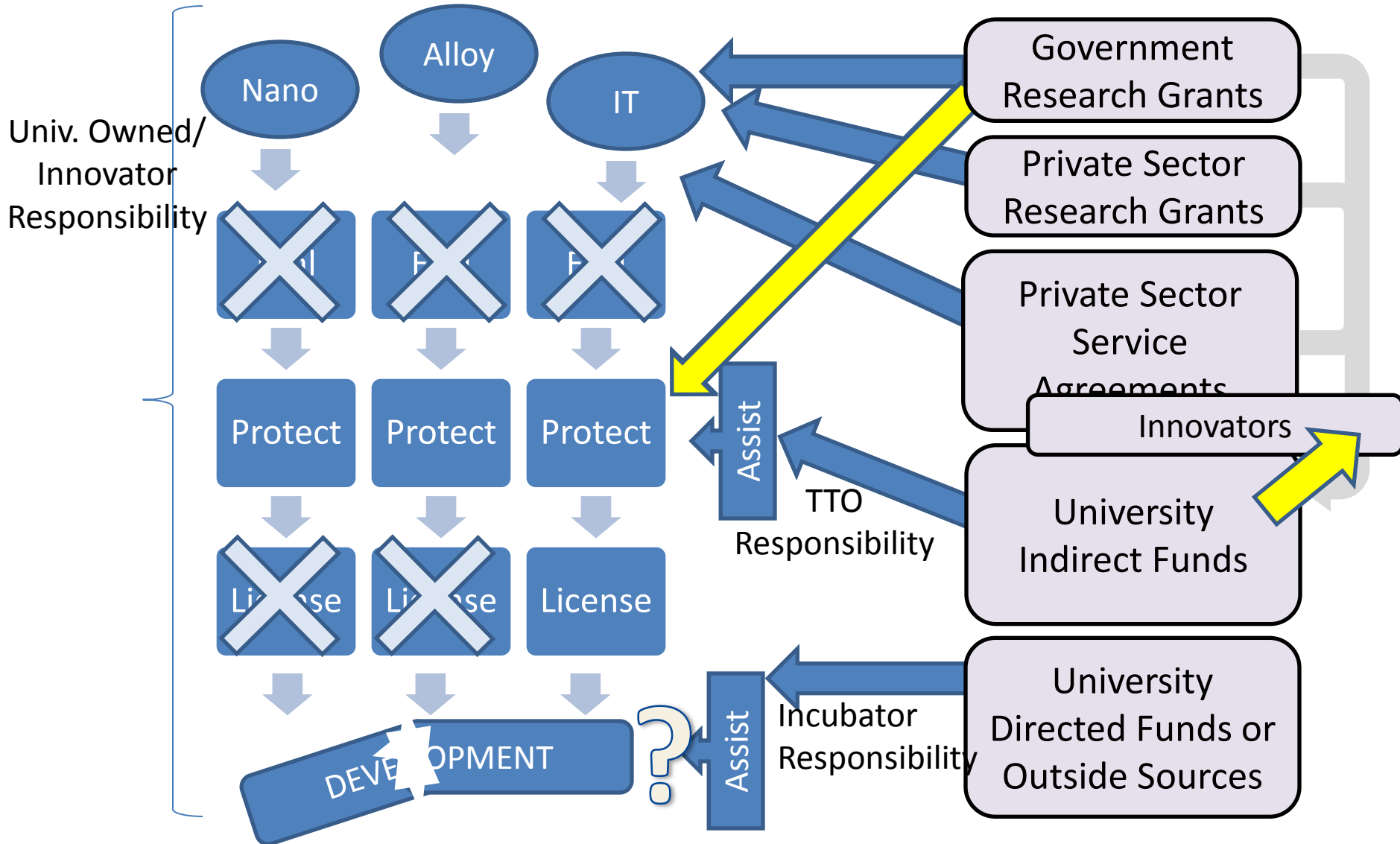
Russian Model

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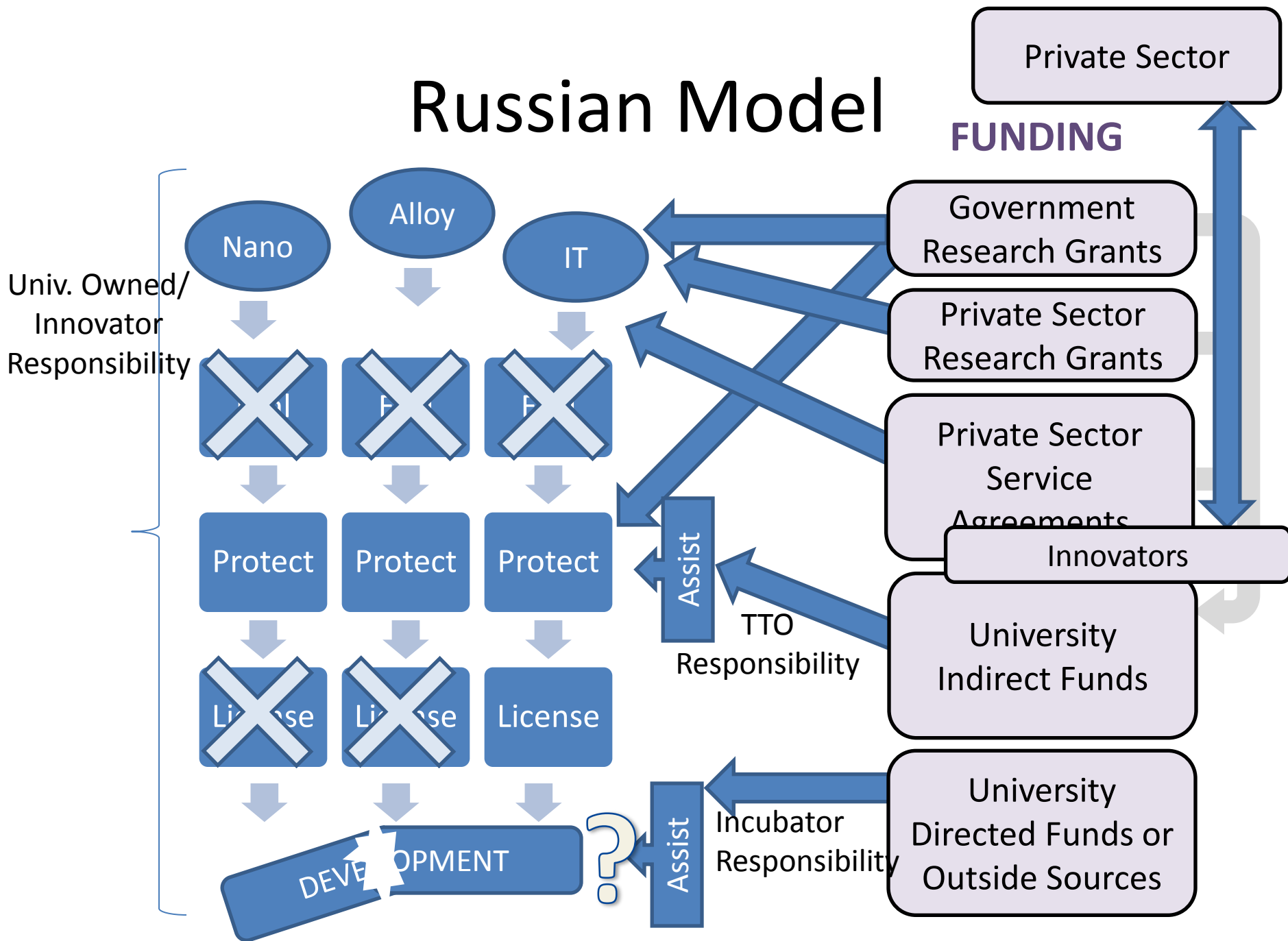


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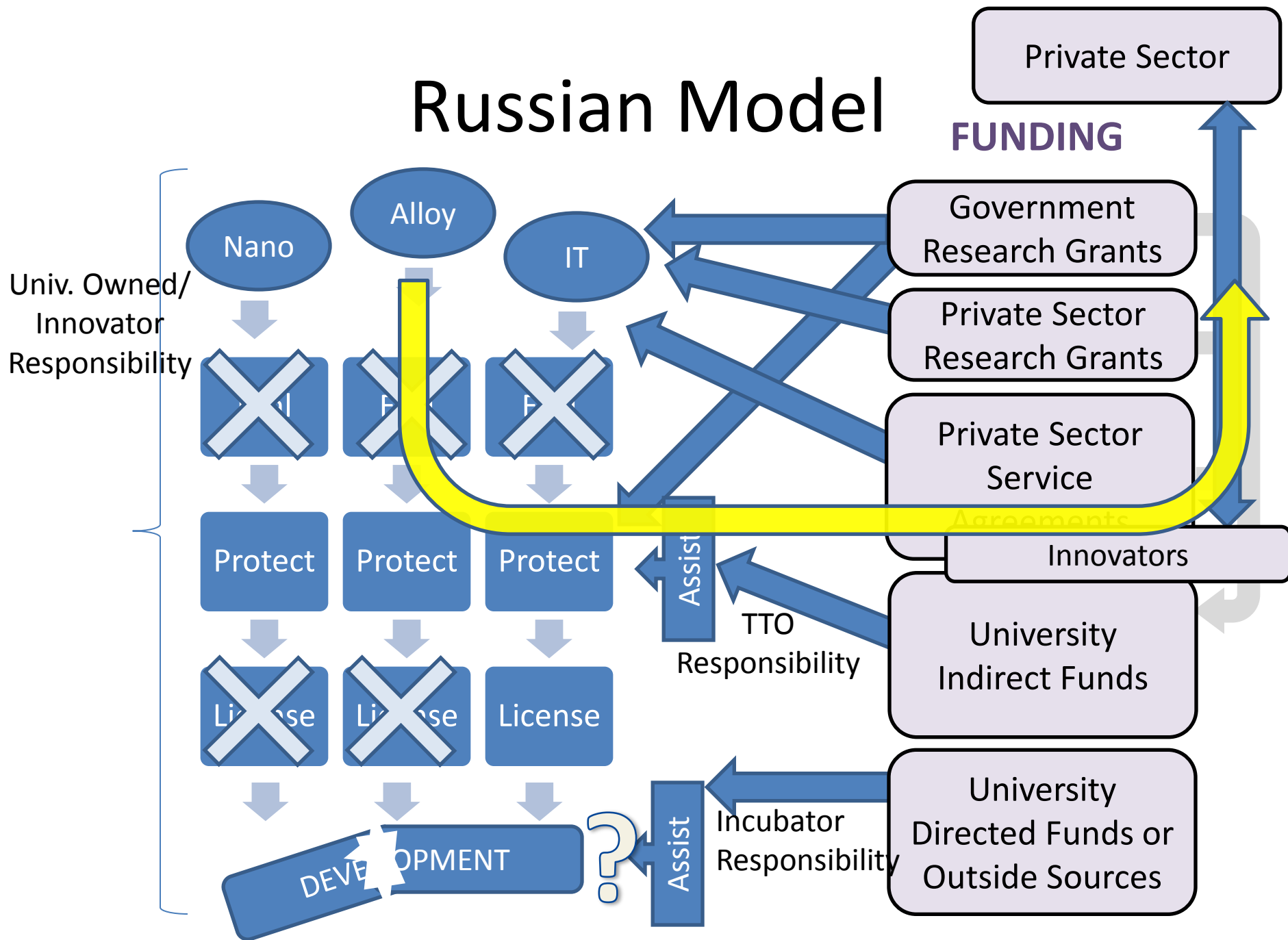
FUNDING



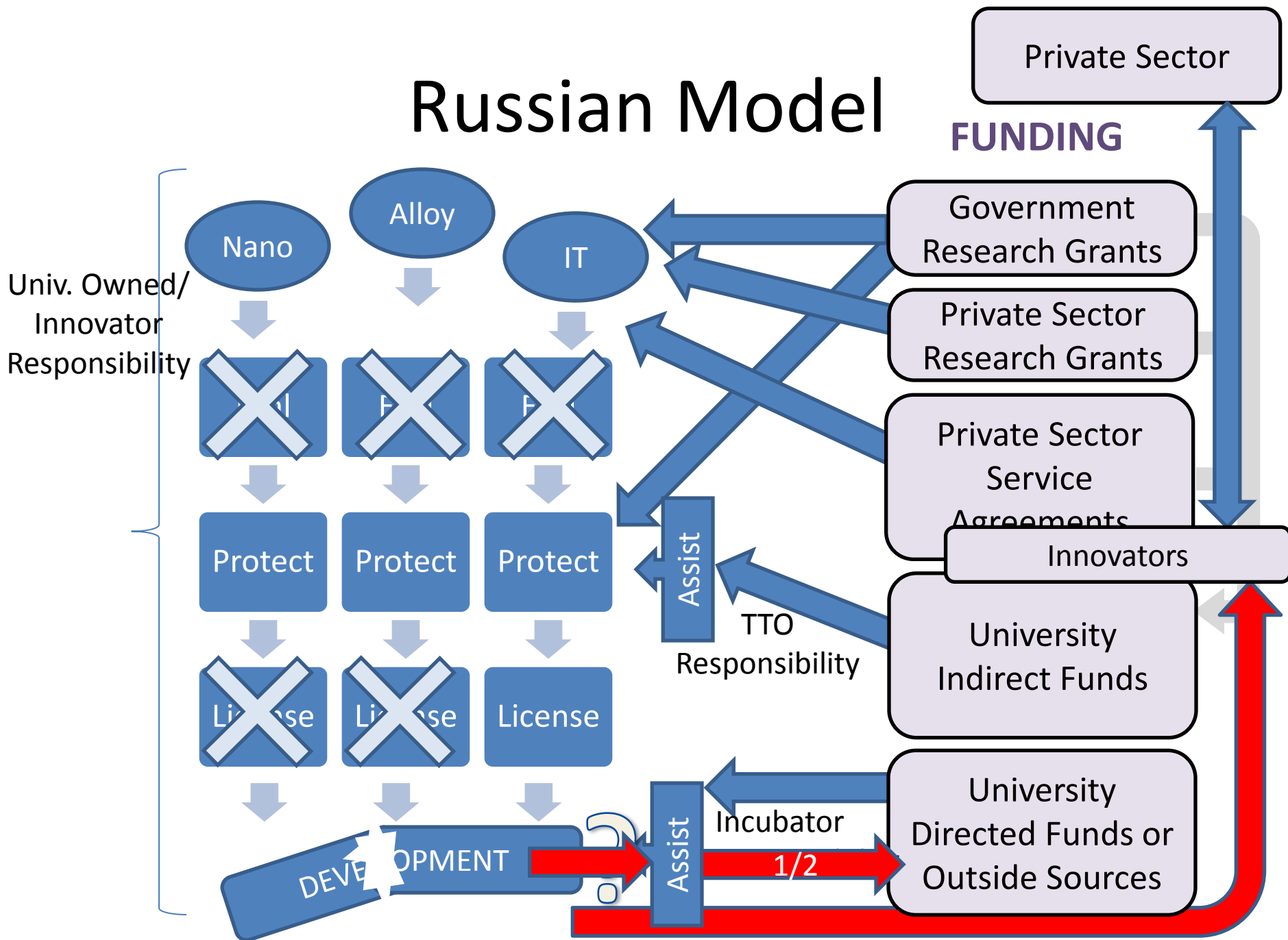
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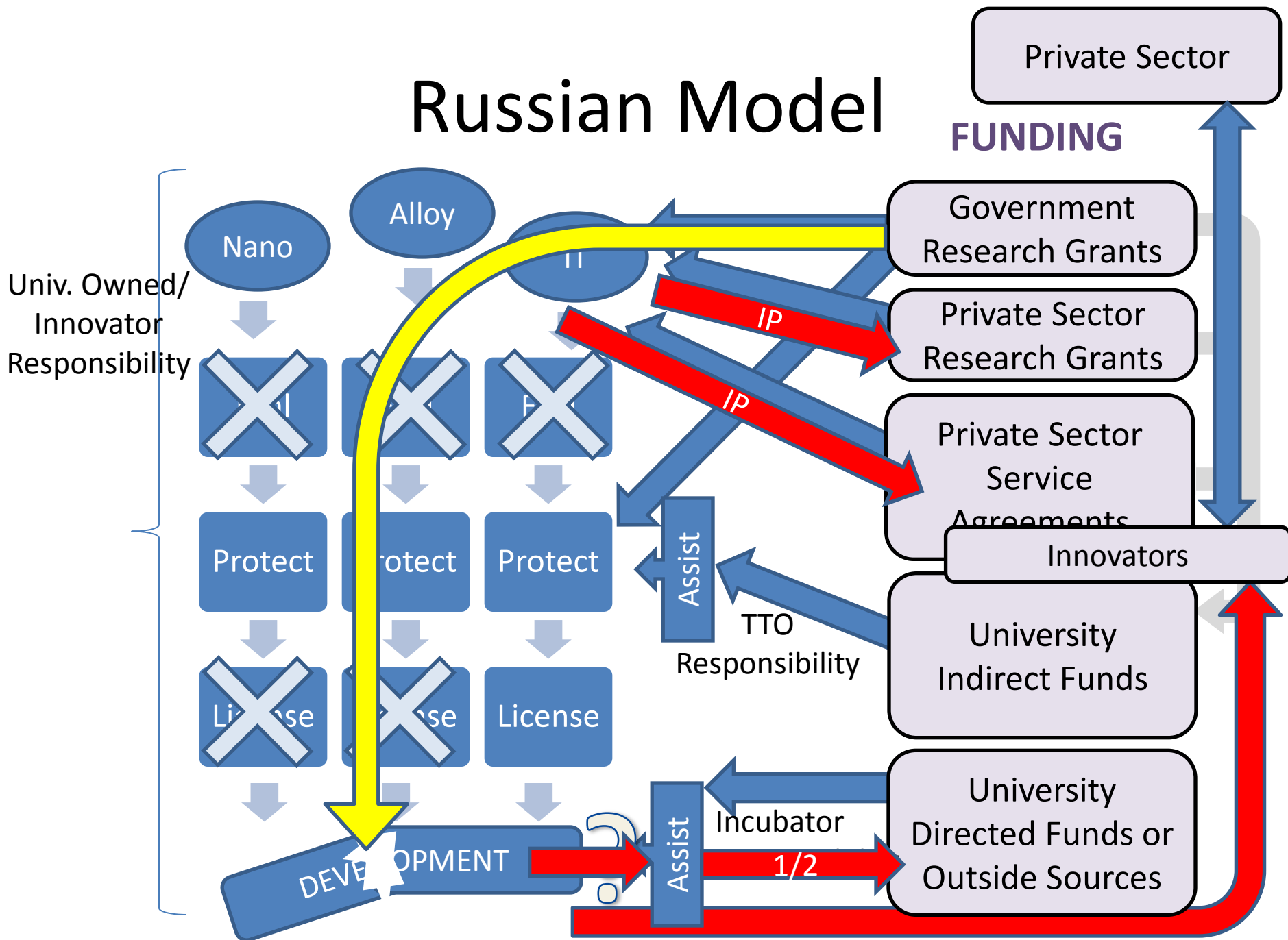
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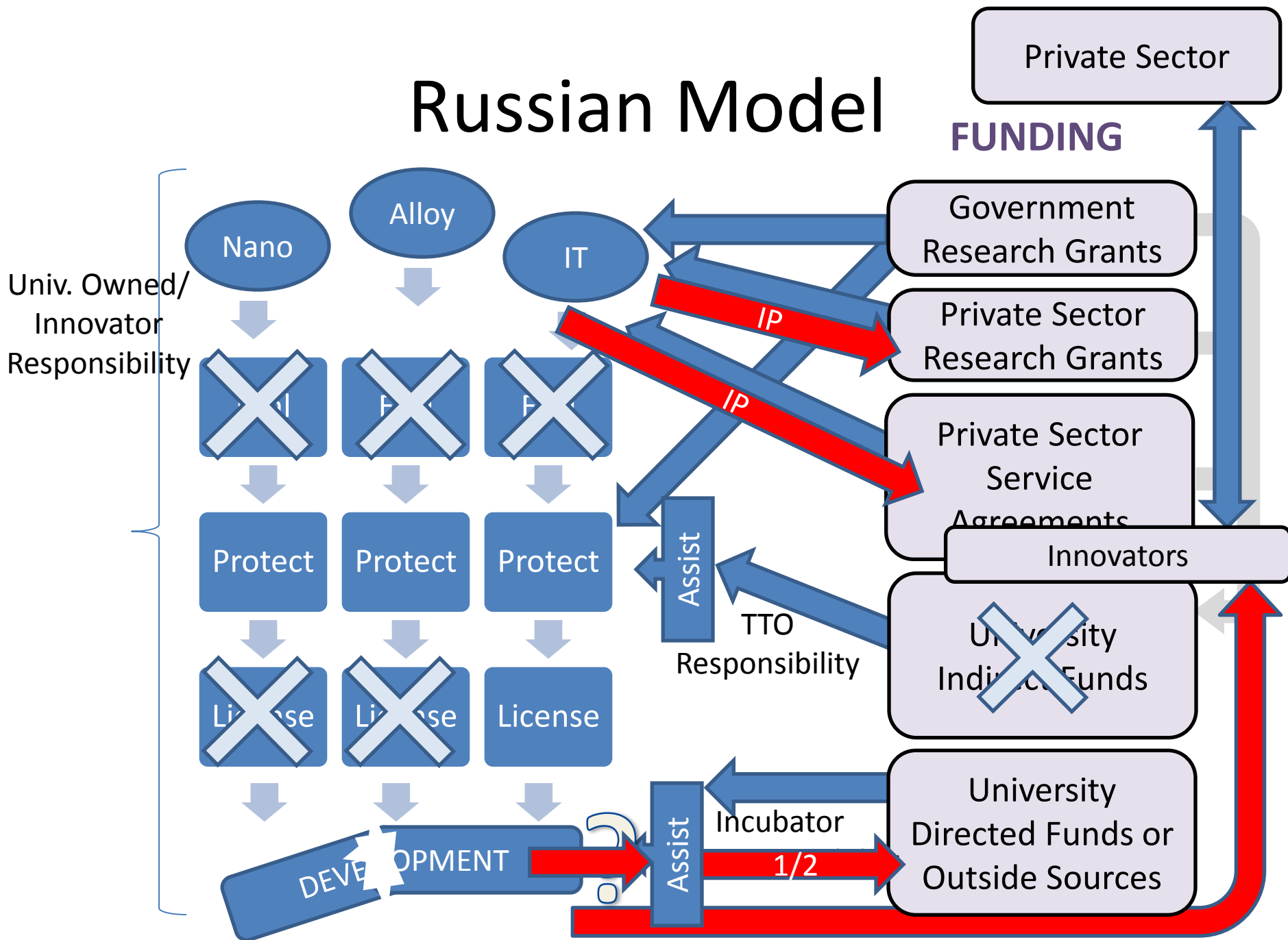
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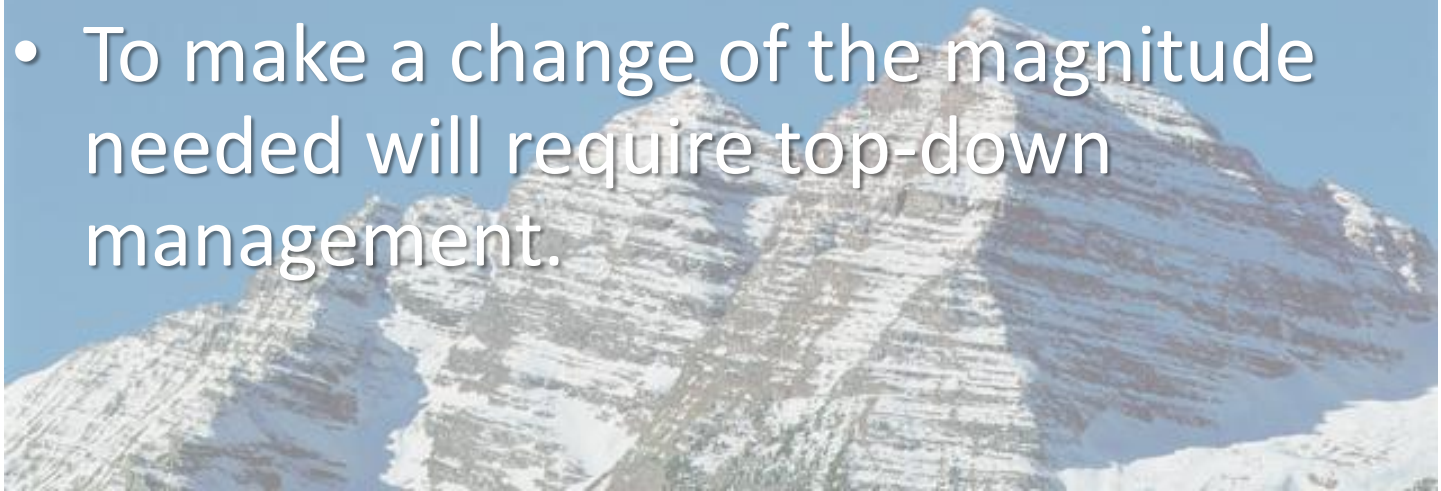


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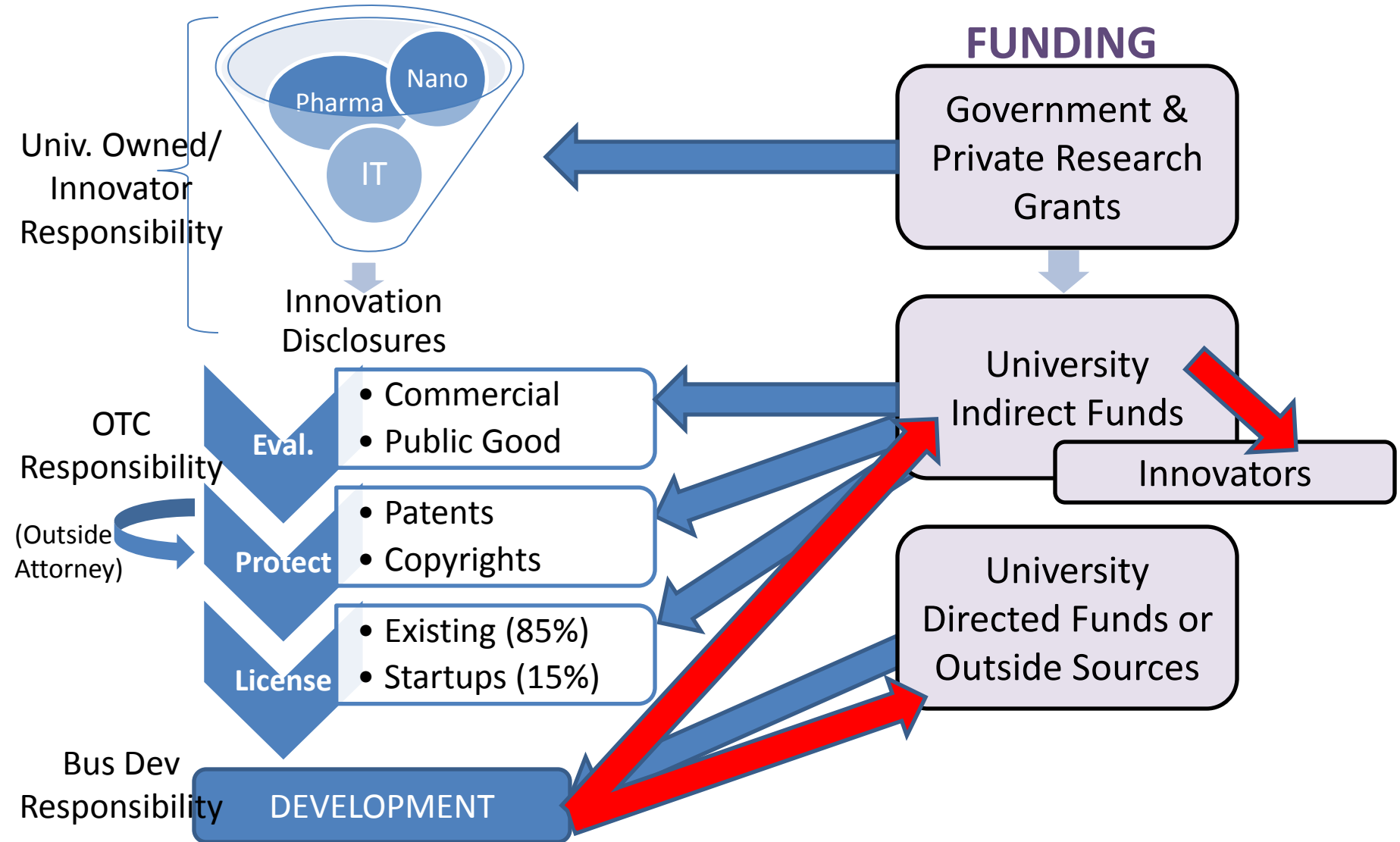


Conclusion

- It is clear to see that the current model is unsustainable.
- It is clear that changes are needed on many fronts.
- There will be great resistance to change.
- To make a change of the magnitude needed will require top-down management.

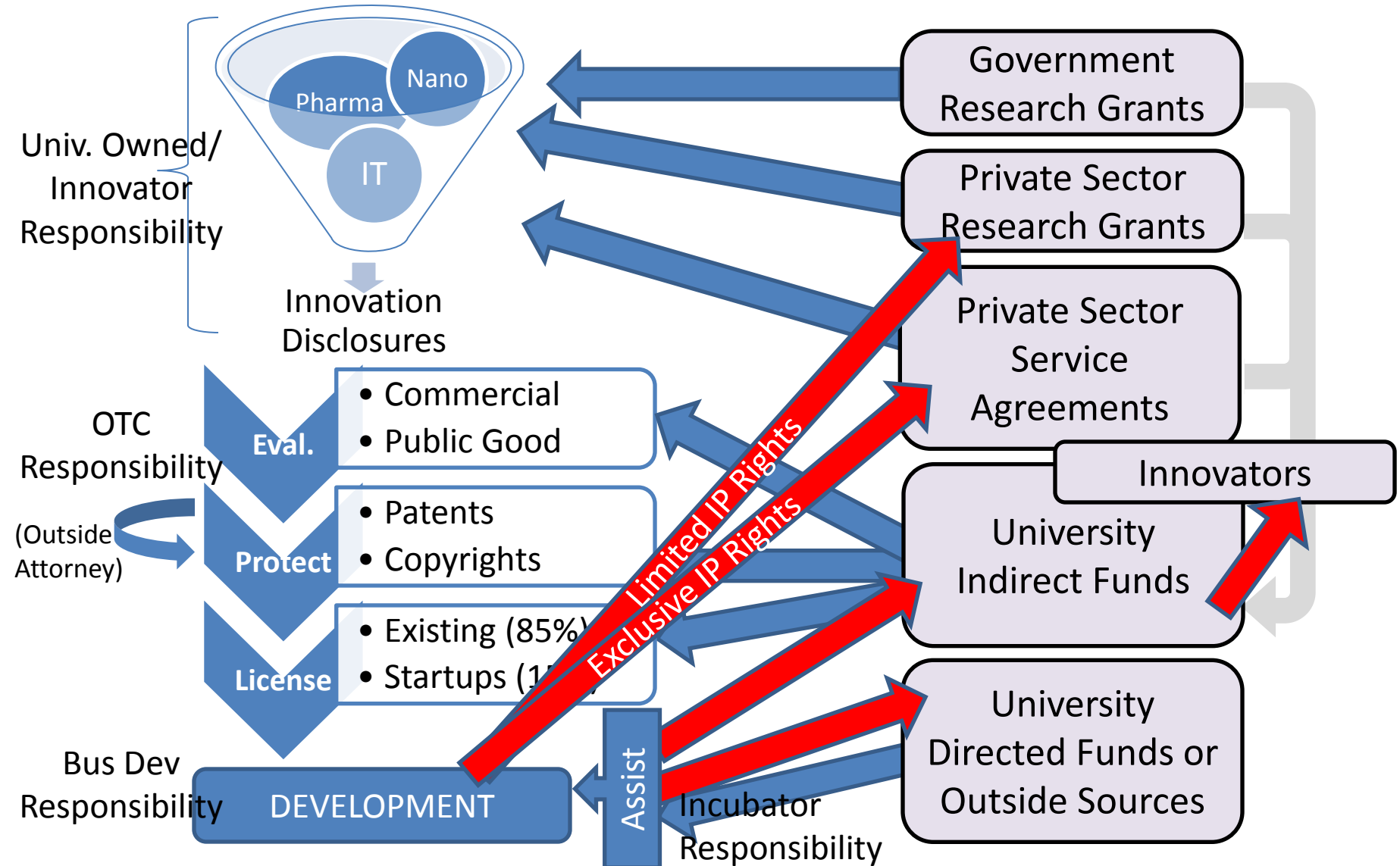


Standard Model for Russia?



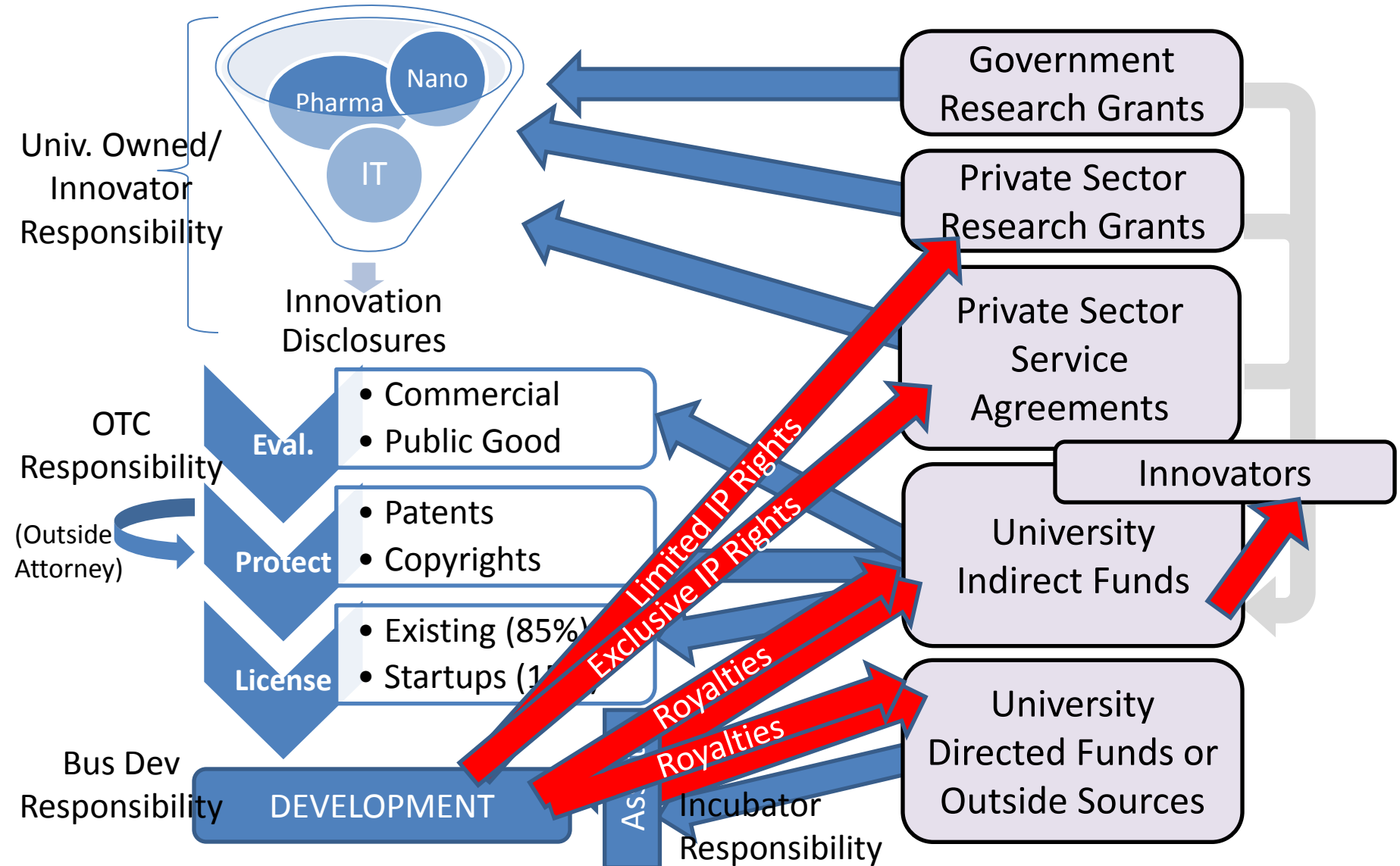
or Modified Model?

FUNDING



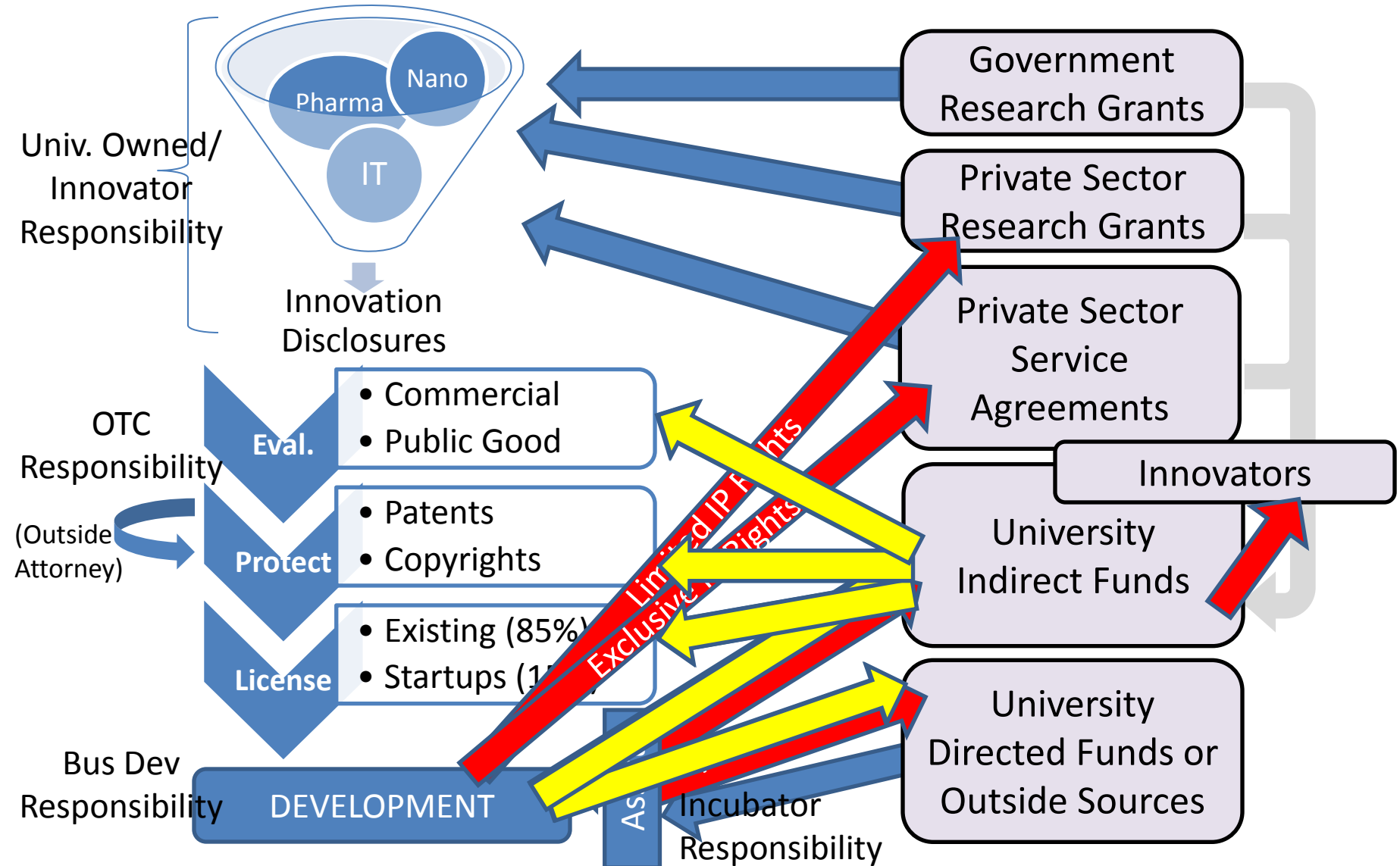
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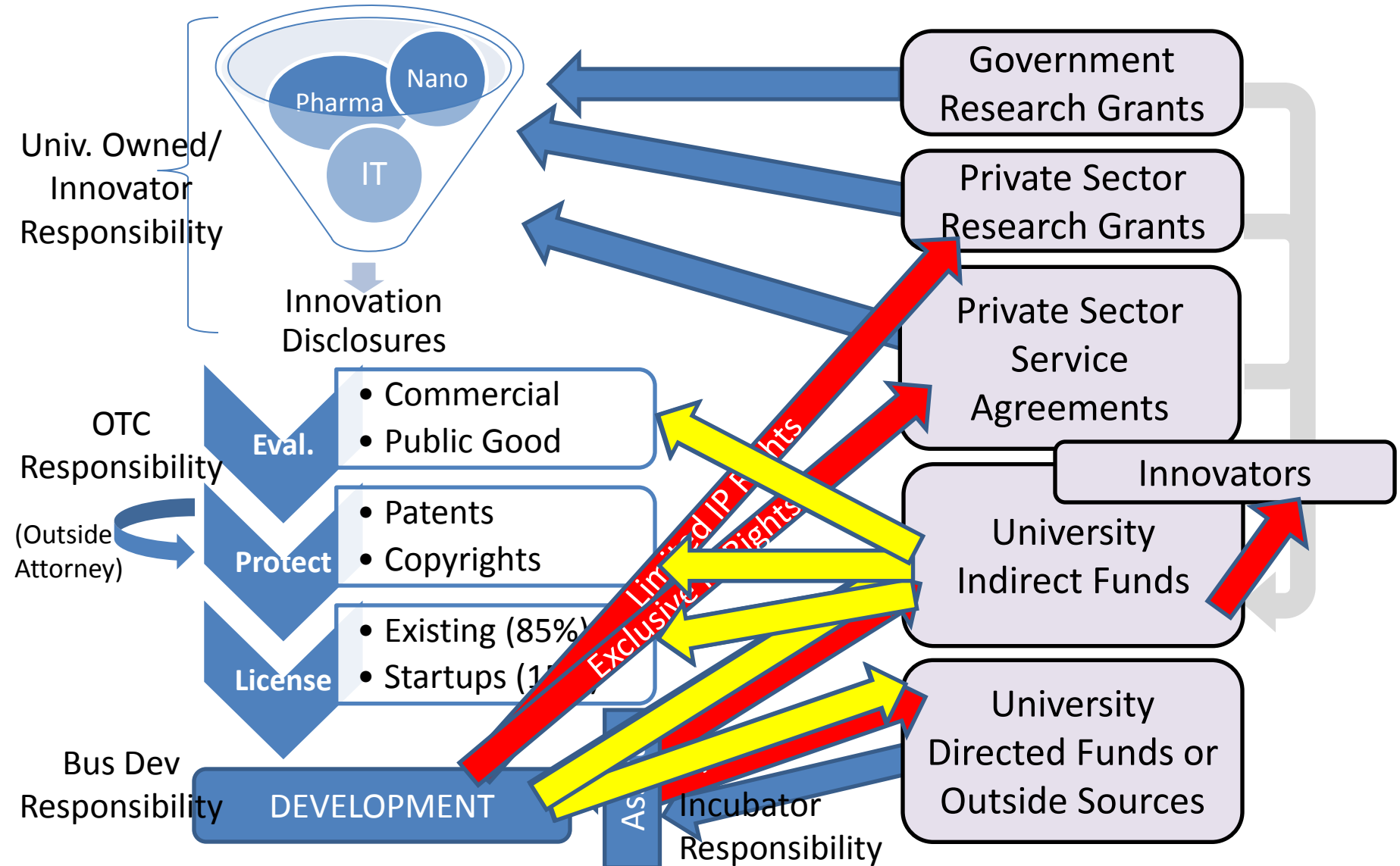
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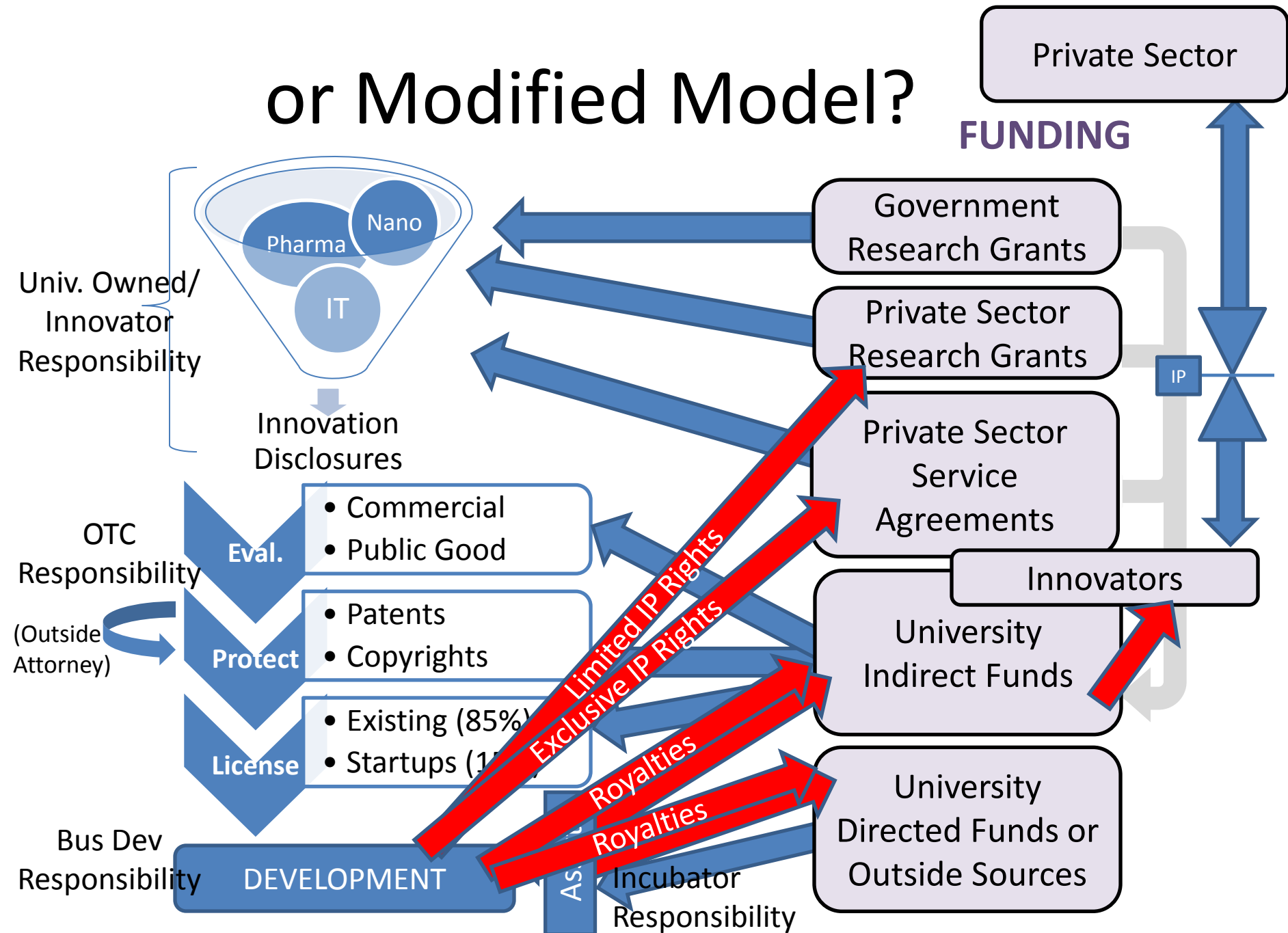


or Modified Model?

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contact

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