

VALGEN

Value Addition Through Genomics and GE³LS

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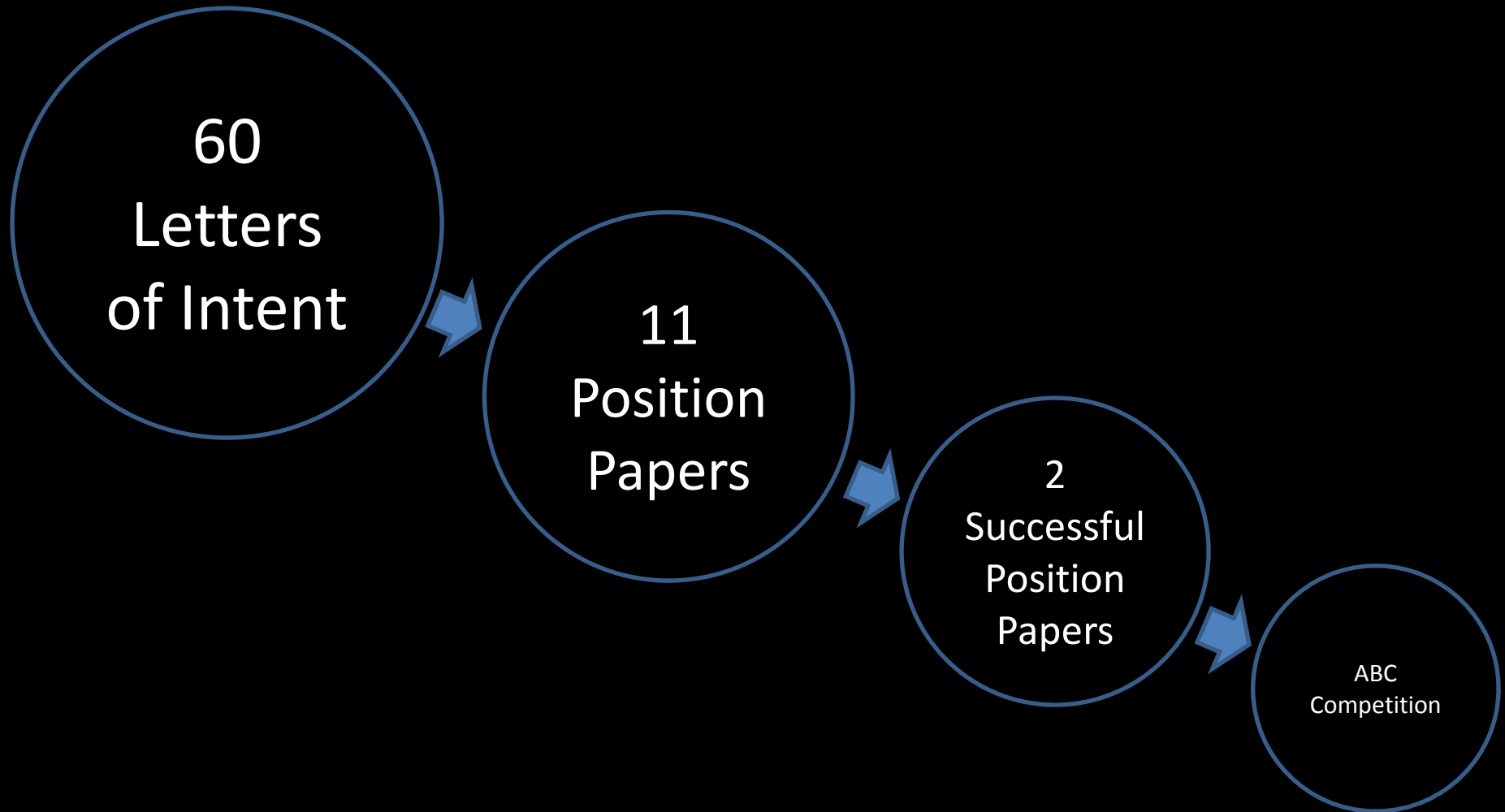
What is VALGEN?

- ❖ *Value Addition through Genomics and GE³LS*
- ❖ \$CDN 5.4 M, 4 year project
- ❖ Stand-alone GE³LS project
- ❖ Genome Canada funds
- ❖ Genome Prairie administers

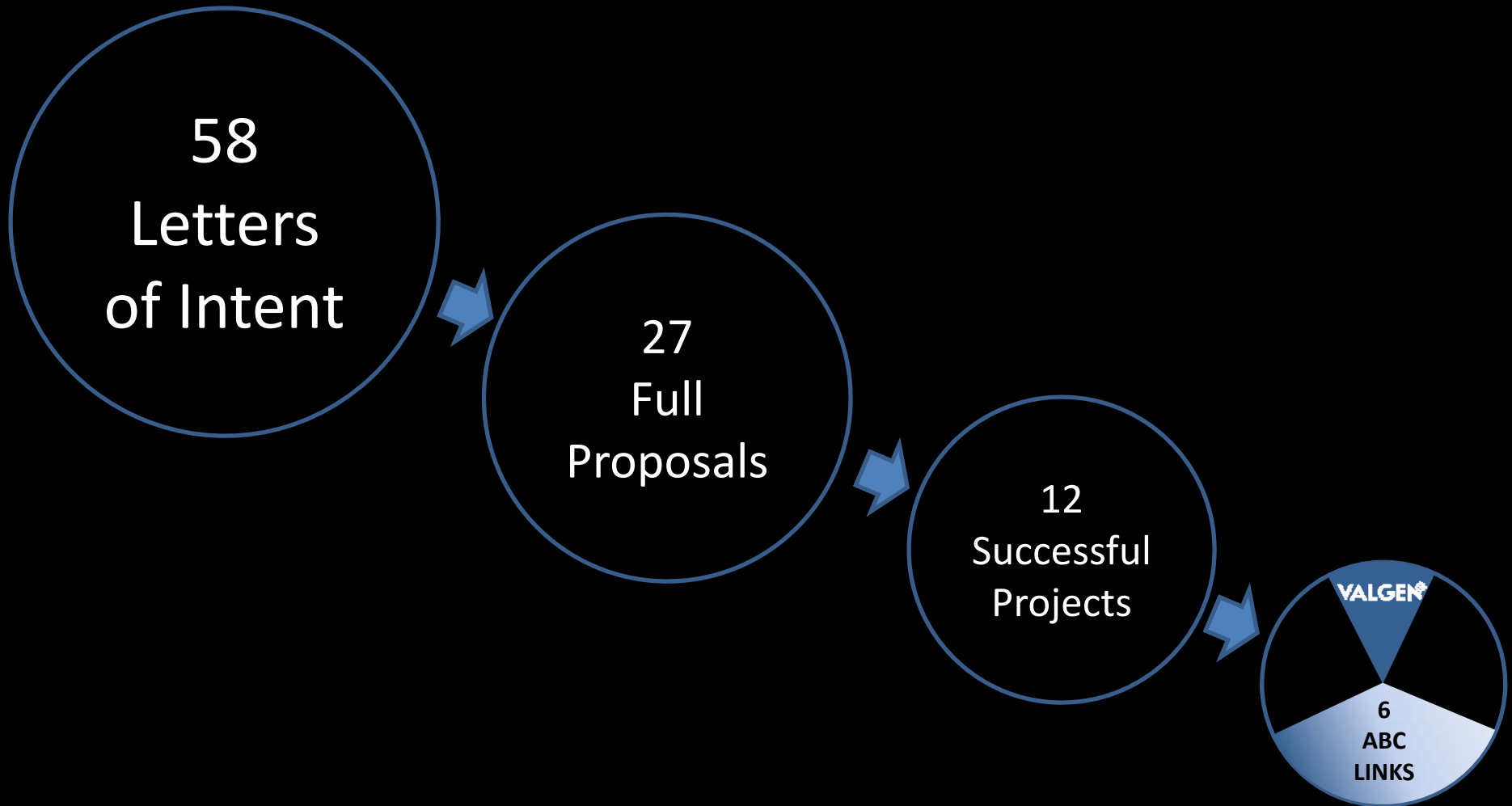
What is VALGEN's Origin?

- ❖ Genome Canada Position Paper Process (2007)
 - ❖ *Life Sciences Innovation in Canada: New Metrics, Methods and Models for Success in Innovation*
- ❖ Genome Canada Position Paper Process (2008)
 - ❖ *Models, Methods and Metrics for Governance of Genomics Innovation in Canada*
- ❖ Genome Canada Competition in Applied Genomics in Bioproducts and Crops (ABC) (2008-2009)

How did the ABC Competition Develop?



How did the ABC Competition Proceed?



Where are VALGEN Researchers?



- ★ Canadian co-applicants and collaborators
- International collaborators

What is the Vision of VALGEN?

To understand and respond to the deep governance challenges and opportunities of applied genomics for bioproducts and crops by focusing on the core issues of

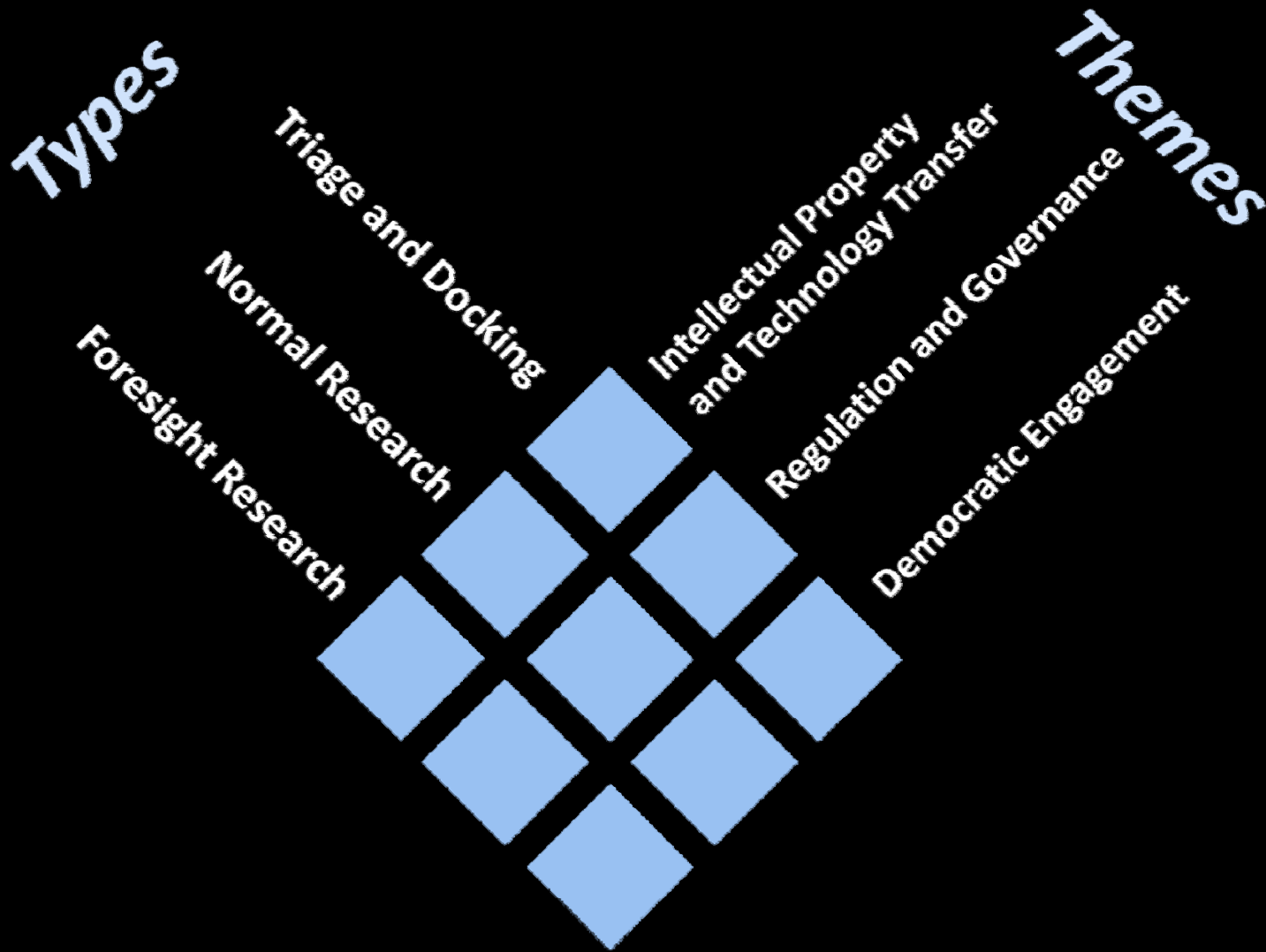
- ❖ intellectual property management
- ❖ regulation and governance
- ❖ democratic engagement

to add value to the genomics science and integrated GE³LS projects.

What are the VALGEN Goals?

- ❖ Remove roadblocks to innovation in Canada's bio-based economy
- ❖ GE³LSCapacity building:
 - ❖ New scholars / practitioners
 - ❖ New domestic and international networks
- ❖ Develop:
 - ❖ New models for IP protection and technology transfer
 - ❖ Faster and more predictable regulatory review processes
 - ❖ Embed public consultation in policy-making and risk assessment frameworks
- ❖ Bridge the science and society gap

How is VALGEN a Research Network?



How Are Research Types Defined?

❖ Priority Setting and Triage

- ❖ selection and prioritization of cases
- ❖ gaps, overlaps, iterative and transformative

❖ Normal research

- ❖ Kuhnian puzzle-solving
- ❖ Models, methods, metrics

❖ Foresight research

- ❖ Desirable futures to shape
- ❖ Back-cast to present circumstances

		Theory	
		Known	Unknown
Evidence	Known	Triage	Normal Research
	Unknown	Normal Research	Foresight Research

How are Research Themes Defined?

❖ Intellectual property management & technology transfer

- ❖ patents, copyright and trade secrets in combination with public policy, industrial structure and business strategy
- ❖ effect on commercialization and use of new technologies

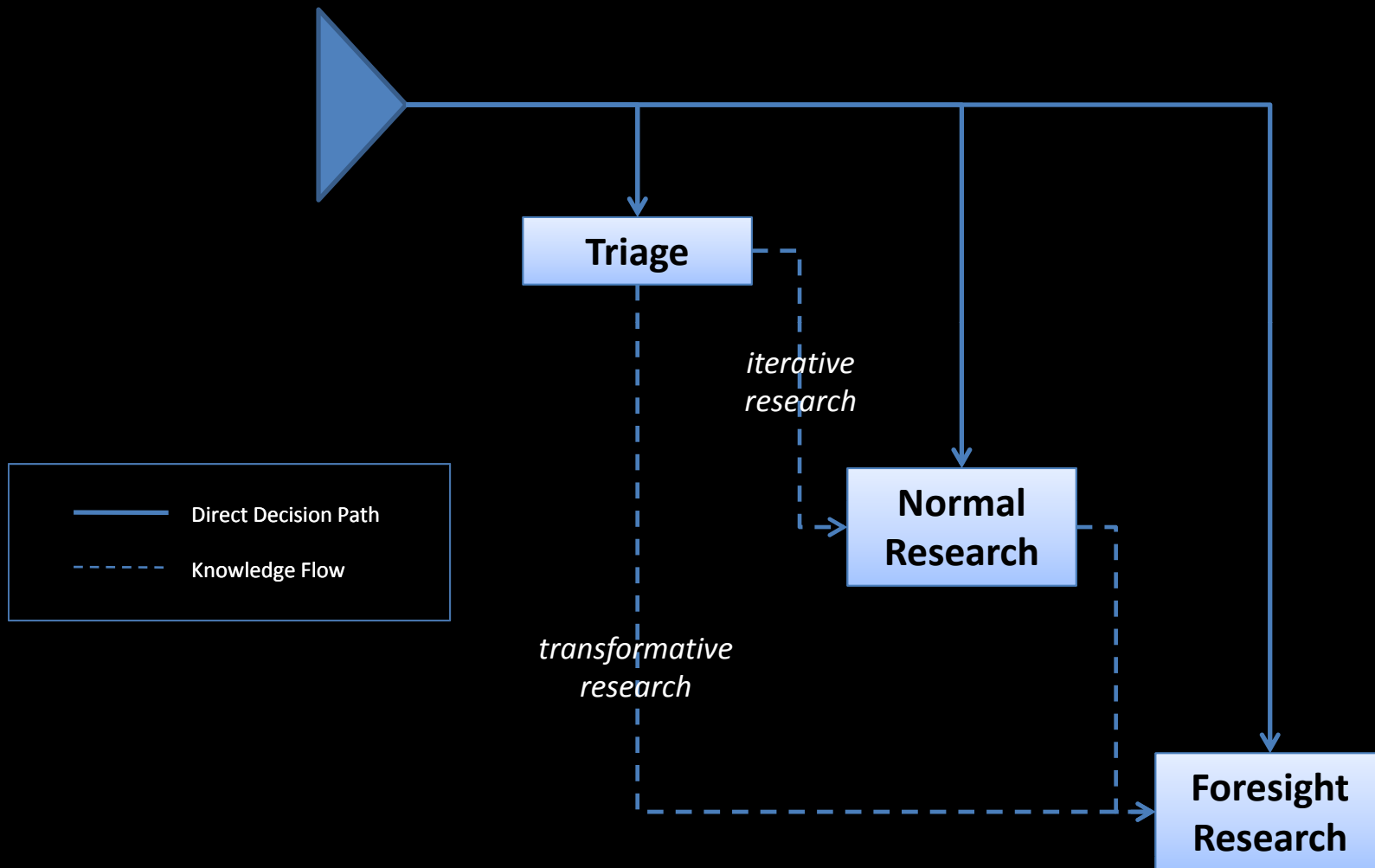
❖ Regulation and governance

- ❖ increasingly complex and intertwined domestic and international systems
- ❖ identification of regulatory bottlenecks and blind spots.

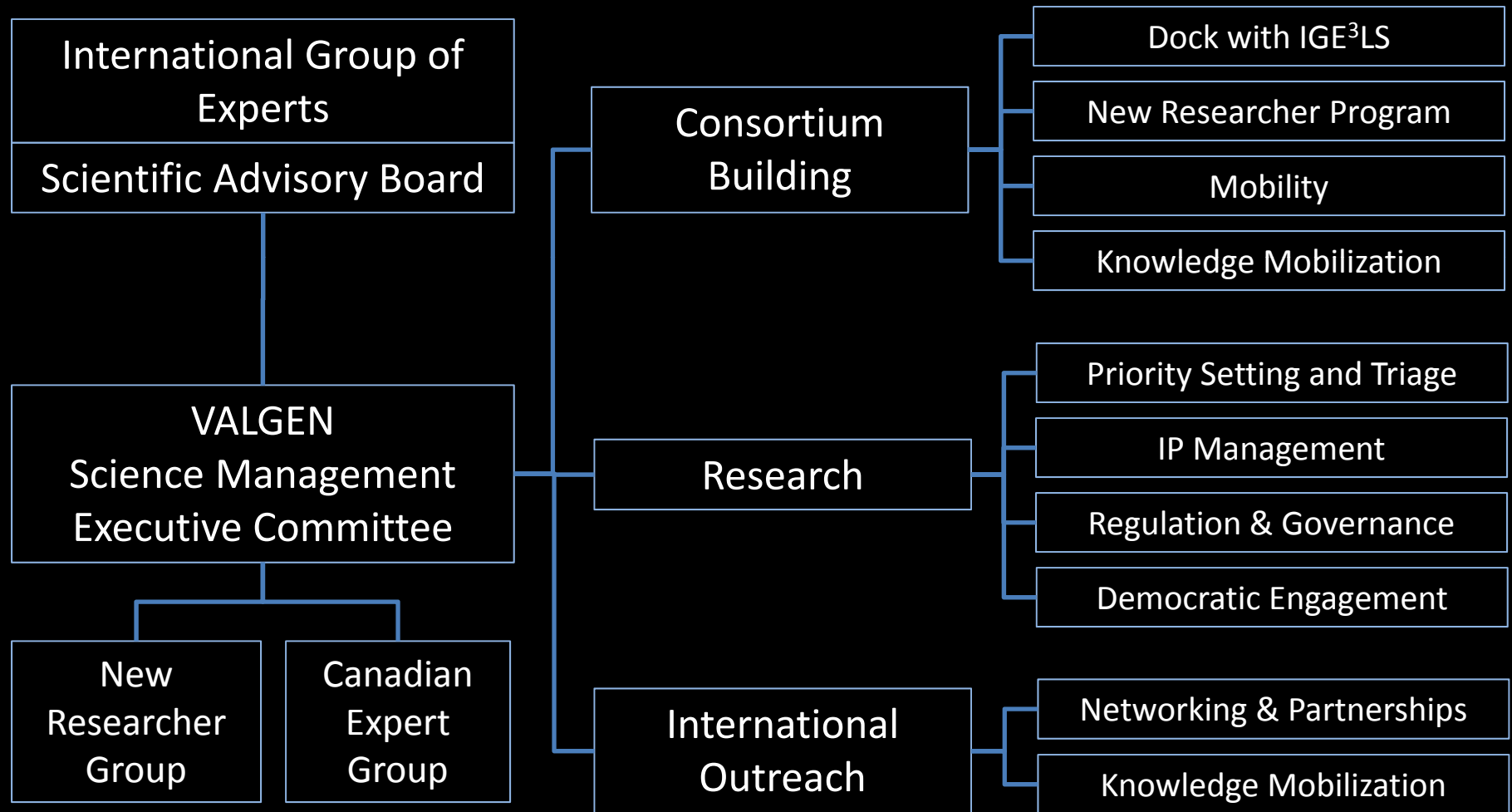
❖ Democratic engagement

- ❖ methods for engaging the public
- ❖ uses of the outcomes of democratic engagement

How do VALGEN's Activities Flow?



What is VALGEN's Structure?



Who Manages and Advises VALGEN?

SMEC

- ❖ David Castle
- ❖ Keith Culver
- ❖ Kari Doerksen (PM)
- ❖ Edna Einsiedel
- ❖ Richard Gold
- ❖ Peter Phillips
- ❖ Jeremy Rayner
- ❖ Stuart Smyth
- ❖ James Tansey

SAB

- ❖ Jose Falck-Zepeda
- ❖ Julian Kinderlerer
- ❖ Robert Paarlberg (C)
- ❖ Reno Pontarollo (*EO*)
- ❖ Eric Sachs

How does VALGEN Add Value?

- ❖ National network for ABC-focused GE³LS
- ❖ Synergy building and gap / overlap identification
- ❖ International branding
- ❖ Source of integration models and strategy
- ❖ Spanning disciplines, institutions, existing networks
- ❖ New Researcher Group (NRG)
- ❖ Researcher mobility
- ❖ Coordination of partnerships
- ❖ Social networking; information clearing house
- ❖ *Ad hoc* national and international peer groups
- ❖ Enhanced knowledge mobilisation
- ❖ Increased return on ABC investments
- ❖ *...more to be added in the four years....*

VALGEN

Acknowledgements

- ❖ Kari Doerksen
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- ❖ Cami Ryan
- ❖ Stuart Smyth



GenomeCanada



GenomePrairie