



GenomeQuébec



les solutions sont dans les gènes



2015 Disruptive Innovation in Genomics Competition

Request for Applications

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GÉNOME QUÉBEC

MISSION

Génome Québec funds large-scale research initiatives in genomics and provides access to the tools and technologies. In partnership with Genome Canada and other stakeholders in life sciences nationally and internationally, Génome Québec contributes to reinforce the competitiveness of the innovation system in genomics in order to maximize socio-economic benefits for Québec.

VISION

Making **Genomics** Work for Citizens and Society.



ROLE OF GÉNOME QUÉBEC

Génome Québec is part of 6 genomics centers in Canada that support genomics research in their respective region

For Genome Canada Competitions, we:

- ▶ Help candidates to prepare competitive applications
- ▶ Facilitate the access to innovation and technology centers and other service providers
- ▶ Once projects are approved, GQ does project management and oversight



Ensure the competitiveness of Quebec researchers

COMPETITION BACKGROUND

Objective:

- Support the development of disruptive innovation in the field of genomics

Definition: What is **Disruptive Innovation**?

- A **new genomics-based technology** or
- The **application of an existing technology**:
 - that is truly transformative in that it has the
 - **potential to either displace** an existing technology,
 - **disrupt an existing market** or
 - **create a new market**
- **Capability to do things not previously possible**
- **Not just an incremental improvement of an existing technology**





COMPETITION BACKGROUND

Genome Canada : \$15M

All sectors: Human Health, Agri-food, Industrial Biotech, etc

Two (2) phased PROGRAM MODEL:

Phase I (Idea/feasibility)

- Early stage ideas; proof-of-concept
- **No co-funding required**
- GC Total \$5M
- Total budget \$250K
- 24 months
- Projects < \$50K will not be considered unless well justified
- **Review Process**
 - Technical + due diligence review by international panel of experts
 - Experts: scientific, industry, VC, tech transfer, IP, commercialization, industry business development





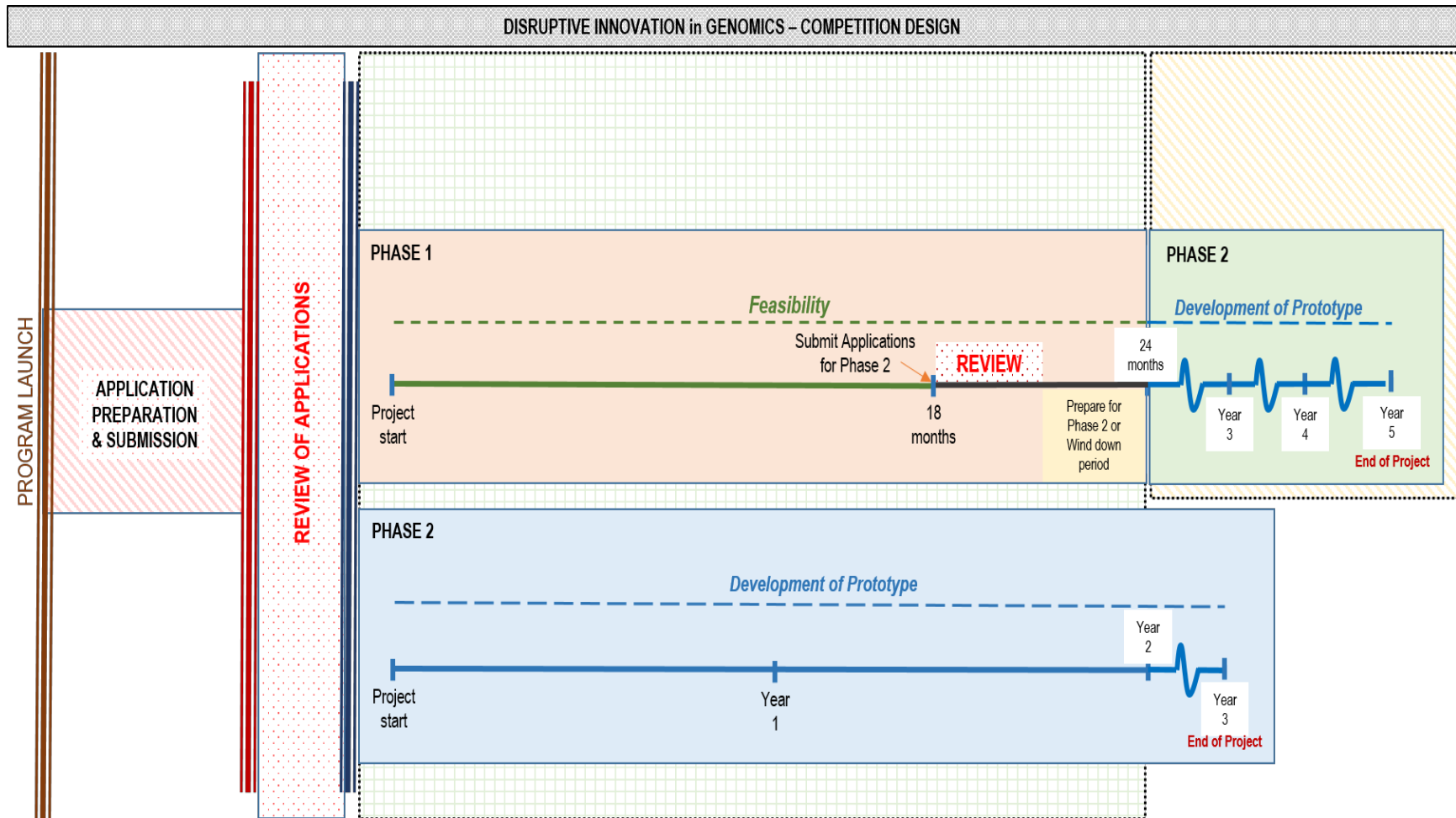
COMPETITION BACKGROUND

Phase II (Development of Prototype)

- Beyond the proof-of-concept stage
- Prototype (process/product/method) towards the idea to a stage where it can be translated to the real world
- **Funding GC : 33% GQ: 33% other:33%**
- GC Total \$10M
- Total budget per project \$300 000 to \$3M (cap of GC \$1M)
- 2-3 years
- Proposal must describe plans for development of product, potential for disruption, commercialization plan
- GQ funds for Qc expenses (MEIE funds)
- **Review Process**
 - Technical + due diligence review by international panel of experts
 - Experts: scientific, industry, VC, tech transfer, IP, commercialization, industry business development
 - Interview via videoconference with Review Committee



COMPETITION DESIGN



HOW TO

Registration (September 1st 2015 GQ)

- ▶ Mandatory for Phase 1 and Phase 2
- ▶ Applicants ID
- ▶ Research Areas
- ▶ What do you plan to do and expected deliverables
- ▶ Approximate budget
- ▶ One page research summary
- ▶ Suggestions for reviewers (optional)



ELIGIBILITY OF THE PROPOSAL

- ▶ Respond to the objective of the competition
- ▶ Fit the parameters of the program model
- ▶ Be internationally competitive
- ▶ Phase 2 (Development of the Prototype) proposals, provide evidence of secured co-funding (no less than two-thirds of total project costs from eligible co-funders), which includes a third party interested in investing in the development to the next stage (investigator's own company, spin-offs, incubators)



HOW TO

Full Application October 8th 2015 GQ

	Phase 1	Phase 2
COVER PAGE	√	√
RESEARCH AREAS AND KEY WORDS	√	√
RESEARCH TEAM	√	√
PARTICIPATING ORGANIZATIONS' SIGNATURES	√	√
LAY SUMMARY	√	√
RESEARCH SUMMARY	N/Ap	1 p.
RESEARCH PROPOSAL	3 p.	15 p.
EXPECTED BENEFITS	1 p.	4 p.
MANAGEMENT	N/Ap	2 p.
BUDGET	1 p.	EXCEL file
FINANCIAL INFORMATION	N/Ap	√
CO-FUNDING STRATEGY	N/Ap	√
IP MANAGEMENT PLAN	1 p.	N/Ap
IP TERM SHEET	N/Ap	√
BUDGET AND SUPPORTING DOCUMENTS	N/Ap	√
SUPPORTING DOCUMENTS FOR CO-FUNDING	N/Ap	√
LETTERS OF COLLABORATION AND SUPPORT	N/Ap	√
PUBLICATIONS	N/Ap	Up to 3
CURRICULA VITAE	Up to 3	Up to 5
GANTT CHART	√	√



EVALUATION CRITERIA

PHASE 1:

- To what extent will the proposal support the development of transformative ideas with the potential for disruptive innovation?
- What is the likelihood the idea will be ready for Phase 2 (Development of Prototype) at the end of the funding period?
- How realistic is the project plan?
- How realistic is the budget requested?

PHASE 2:

- **Research Proposal** (research context, research plans, research expertise and environment)
- **Social and Economics Benefits** (deliverables, expected benefits, strategy for realizing benefits, expertise for realizing benefits)
- **Management and Finance**



TIMETABLE

Actions	Génomique Québec	Genome Canada
Launch		11 June 2015
Registration	1 September 2015	4 September 2015
Full application	8 October 2015	29 October 2015
Phase 2 applicants notified regarding interviews with reviewers		January 15 2016
Review committee meets (including interview with applicants Phase 2)	Mid February 2016	
Decision by GC	Mid-March 2016	
Notice of decision (NOA)	End-March 2016	
Transfer of funds	1 st July 2016	

COFUNDING & EXPENSES

- ▶ CFI eligible BUT not NSERC, centers of excellence, Canada research chair
- ▶ AAFC, CFIA, NRC and other federal labs : eligible
- ▶ Co-funding covered expenses can be eligible 6 months before NOA
- ▶ Cash or in kind (non-cash eligible budget items which can be given a cash value)
- ▶ Equipments BUT not construction, rent or renovation
- ▶ Suppliers discounts are not eligible
- ▶ GQ \$ not to federal nor provincial laboratories
- ▶ GC \$ OK to provincial laboratories
- ▶ Genome Canada [Guidelines for Funding Genomics Research Projects](#)

WHAT WE WILL DO WITH YOU

- ▶ Administrative review (review formats of applications...)
- ▶ Support with all steps of the process
- ▶ Support to fill-out the budget and financial review
- ▶ Friendly peer review (Phase 2)
- ▶ Contact with other Genome Centers across Canada
- ▶ Support for interview with GC review committee (Phase 2)



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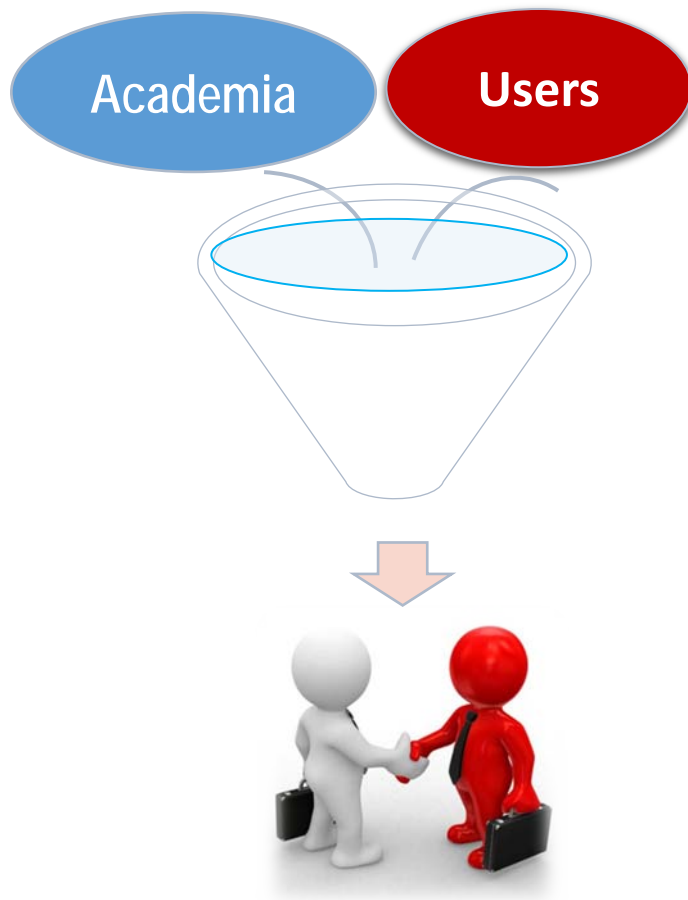
GenomeCanada



Genomic applications partnership program (GAPP)

Diane Bouchard, Génome Québec

PROGRAM OBJECTIVES



- ▶ Promote the application of genomics derived solutions to **address key sector challenges or opportunities**
- ▶ Enable the transfer of **genomics-driven solutions** from academia to users
- ▶ Increase the **socioeconomic value** of genomics research
- ▶ Foster **productive interface** between end-users and academic research

UP TO \$38 MILLION IS AVAILABLE FROM GENOME CANADA

- ▶ \$300,000 to \$6 million in total project budget
- ▶ $\frac{1}{3}$ of the total investment in the project will be funded by Genome Canada
- ▶ $\frac{1}{6}$ will be funded by Genome Québec
- ▶ The remaining $\frac{1}{2}$ must be secured through co-funding
- ▶ Project duration: 6 months to a maximum of 3 years





GenomeQuébec



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Large Scale Applied Research Project 2015

Natural Resources and the Environment: Sector Challenges – Genomic Solutions

Micheline Ayoub

COMPETITION BACKGROUND

Using applied genomic approaches to address challenges and opportunities of importance to Canada's natural resources:

- ▶ Wildlife management/conservation
- ▶ Forestry, energy, mining
- ▶ Water stewardship
- ▶ Bioproducts that help conserve natural resources and protect the environment





Genome Québec

COMPETITION BACKGROUND

Application of genomics (omics)

\$26M from GC

Financing scheme:

- ▶ 33% GC, 33% GQ, 33% other
- ▶ Max GC contribution \$3.33M
- ▶ GQ \$ for expenses within the province (MEIE funds)

Projects lead by other provinces: GQ will provide 33% of the funds for the Quebec portion of the budget

Total per project : \$2M - \$10M (could be >10M\$ if more co-funding available)

Duration: max 4 years

Active End user engagement (on the team as collaborators, co-applicants, translational committee members) to ensure deliverables uptake

End users: industry, government departments, regulatory agencies, producers...





Genome Québec

GÉNOME QUÉBEC TEAM

DIG

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GAPP

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