INFORMATIE BIJEENKOMST NIEUWE NBIC CONSORTIUM

PROGRAMMA

Datum: vrijdag 1 oktober 2010
Locatie: Stadskasteel Oudaen, Oudegracht 99 te Utrecht

13u00-13u30 Ontvangst

13u30-14u15 Opening en introductie van het NBIC Consortium door R.G. Kok, Managing Director NBIC

14u15-15u00 Introductie van de NBIC IP regeling, door I.W.A. de Nooijer, IP Executive Leiden University Research & Innovation Services (LURIS) en K. Laagland, Legal Counsel, Royal DSM N.V.

15u00-15u30 The NBIC Consortium in the international field of Bioinformatics, door B. Mons, Wetenschappelijk Directeur NBIC

15.30-16u00 Vragen en open discussie

16u00-17u30 Borrel
NBIC Consortium information meeting

Context, NBIC consortium,
NGI-II programme and beyond

Utrecht, October 1st 2010

Ruben G. Kok

www.nbic.nl
Unraveling the complexity of life requires (integration of) big key technologies

“from molecule to man”

Unraveling genomes and transcriptomes
Sequencing

Unraveling protein structure/function
Unraveling

Mapping metabolic networks
Mapping

Visualizing molecules/cells/organelles
Visualizing

Integrating data, information and models
Integrating

APPLICATIONS

• Therapy
• Diagnostics
• Personalised health

• Healthy food
• Functional food

• High crop yield
• Disease resistant crop

• Biobased materials and energy

BIG KEY TECHNOLOGIES
NBIC Consortium joining forces to tackle the data deluge and help resolve the complexity of life

Bioinformatics expertise, software, databases & infrastructure
In NL: enabling role as cross institute center

- experts
- code & content
- infrastructure
- experimental design
- data integration
- data interpretation
In NL: enabling role as cross institute center

NBIC enabling research
- experts
- code & content
- infrastructure
- experimental design
- data integration
- data interpretation
Integrated bioinformatics programmes

**BioRange** (research)
- bioinformatics expert community
- >90% 1:1 collaboration with biologists (users)

**BioAssist** (support)
- collaborative infrastructure
- bioinformatics assistance
- professionally engineered software and databases

**BioWise** (education)
- well trained bioinformaticians
- life scientists trained
- public awareness

**NBICCommons** (utilisation)
- broad use of NBIC output
- collaboration with industry
- strategic partnerships
- Spin offs and licencing
BioRange: collaborative bioinformatics research

- >100 scientists involved
- >600 papers, >20 theses
- >60 tools
- 33% researchers to industry
- collaborations in NL
- international collaborations
BioWise: bioinformatics education and training

- NBIC PhD School
- broad programme
- courses at technical and practical level
- bioinformaticsatschool.eu
BioAssist: collaborative bioinformatics support

- > 30 programmers & software engineers
- > 30 projects
- Professionalization of code and bioinformatics use
- Connected to e-science ICT infrastructure
- International partnerships
NBICCommons: incubator for community valorisation

- Support dissemination
  - website, newsletters
  - ET, OSS policy
  - NBIC code repository & wikis
- Exploitation of NBIC output
  - spin offs & licensing
  - service to OSS platform technology
- Support involvement of industry
  - industry platform
  - Collaboration in projects
- Support strategic partnerships
  - CWA, DTL, Elixir
Key facts and figures 2004 - 2013

• NBIC phase-I programme (2004 - 2011):
  • 28 partners, 13 centres, 1 industry
  • 25 project clusters, 4 platforms
  • > 150 researchers, 80 PhD/PD, 15 SE
  • Budget: 56 M€
    • 22 BSIK +12 NGI-I

• NBIC phase-II programme (2009 - 2013):
  • 26 partners, 16 centres, 5 industry
  • 20 projects, 3 platforms
  • > 80 researchers, 20 PhD/PD, 25 SE
  • Budget: 24 M€
    • 13.7 M€ NGI-II
    • 2 M€ BiG Grid
Partners in academia …

Universities
- Delft University of Technology
- Eindhoven University of Technology
- Leiden University
- Maastricht University
- Radboud University Nijmegen
- Tilburg University
- University of Amsterdam
- University of Groningen
- University of Twente
- Utrecht University
- VU University of Amsterdam
- Wageningen University

University Medical Centres
- Academic Medical Centre
- Erasmus Medical Centre Rotterdam
- Leiden University Medical Centre
- Radboud University Medical Centre
- Utrecht University Medical Centre
- University of Groningen Medical Centre
- VU University Medical Centre
.... institutes and industry

**Institutes**
- Centre for Mathematics and Computer Science (CWI)
- FOM Institute for Atomical and Molecular Physics (AMOLF)
- Hubrecht Institute
- Netherlands Cancer Institute (NKI)
- Plant Research International (PRI)
- NIZO Food Research (NIZO)
- SARA Computing and Networking Services
- TNO
- ...

**Industry**
- DSM
- MSD
- Philips
- KeyGene
- KnewCo
- .....
NBIC Consortium organisation

Stichting NBIC

- Supervisory Board
- Board of directors
- Programs:
  - research
  - support
  - education
  - valorisation
  → NBIC Projects

General Partner Assembly
← NBIC Partners (NBIC Consortium)

International Advisory Committee (IAC)

Industry Platform

NBIC Office
Coordination, administration & technical support
NBIC Consortium: flexible public-private partnership

Open consortium; community approach

- partnership of legal entities active in bioinformatics
- public-private partnership of academia, institutes and industry
- independent of project participation
- independent of funding agency
- long-term relationship: sustainability in policy and involvement of partners
- open to new partners

NBIC Projects

- small & large collaborative projects
- scientists use local & NBIC affiliation
- designed to work in collaboration with partner centres
- access to collaborative NBIC Consortium facilities (conditional)
Contracts: standard agreements

Bilateral NBIC Partner Agreement

- arranges membership and rules of play of NBIC Consortium
- access to collaborative facilities (conditional)
- generic NBIC IP Regulation (Ivo de Nooijer)
  - applicable to all NBIC Projects
  - based upon CTMM, NMC, EU, ....
  - OSS and OAD policy

NBIC Project Agreement per project

- public-public and public-private collaboration
- confidentiality and IP rights at project level *
- NBIC is Project Coordinator
- support in valorisation of project results
Contracts: standard agreements

Bilateral NBIC Partner Agreement
- arranges membership and rules of play of NBIC Consortium
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NBIC Project Agreement per project
- public-public and public-private collaboration
- NBIC is Project Coordinator
- facilitates valorisation of project results
  - team of scientist(s), tech transfer/IP specialist(s) and NBIC
  - support professionalization of flag-ship tools
NBIC Project Valorisation Scheme

Participant(s)
- Project Manager (scientist)
- Project IP Manager (TTO)
- Expert consultancy

Dissemination and exploitation report

Project dissemination and exploitation plan

Evaluation of dissemination and exploitation process

Project dissemination and exploitation

‘Project Results’

Project Valorisation Team

Progress report

NBIC Project

Progress report

NBIC
- NBIC Scientific Monitor
- NBIC Valorisation Manager
- Expert consultancy

Dissemination and exploitation report
Process (1)

Design of NBIC contracts

- team of representatives from NBIC, NFU, VSNU and industry
  - Martijn Bakker (NBIC)
  - Poul de Haan (Philips Research)
  - Joost van der Hel (NFU)
  - Koen Laagland (DSM)
  - Ivo de Nooijer (VSNU/NFU)
  - Baukje Rongen (VSNU)
  - (Nico Stam (Organon/MSD))

- agreements & IP regulation broader than field of bioinformatics alone
  - next step in public-private partnership contracts

- regular updates to/with stakeholder organizations
Process (2)

Formalisation of NBIC contracts

- approved by VSNU, NFU, NGI and Agentschap-NL
- NBIC Consortium information meeting 1 oktober 2010 (today)

- formalisation of contracts starts October 2010
- priority to NBIC-II partners
- Partner Agreements and Project Agreements combined
- effective date NBIC-II Partners and Projects: January 2009

- formalisation NBIC-II in October/November 2010
- final funding approval by NGI
NBIC Consortium, ready for the future

NBIC network, collaboration & coordination

- National network of bioinformatics scientists & organisations
- Collaborations between international life science & e-science consortia
- Coordination of programmes in research, support & education
Dutch Techcentre for Life sciences (DTL)

Building a big key technology research infrastructure

Planned to be launched 2012