

Interuniversity Attraction Pole BioMAGNet (IAP P6/25)

Bioinformatics and Modeling: from Genomes to Networks

Coordinator

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<http://www.kuleuven.be/biomagnet/>

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*Ex-post evaluation of the IAP programme
phase VI, 2007-2011
by prof. Dr. ir. Bart De Moor, coordinator*

Budget and number of networks per phase

- IAP programme was launched in 1987
- Developed 6 times a 5-year period phase
- Mobilised total budget of 515 million EUR


Table 2-1: The IAP programme: budget and number of networks per phase

IAP-phase	Period	Budget	Number of networks
Phase-I	1987 - 1991	40 million EUR	14
Phase-II + prolongation	1990 - 1995 1995 - 1996	50 million EUR 10 million EUR	23
Phase-III	1992 - 1996	50 million EUR	16
Phase-IV	1997 - 2001	110 million EUR	35
Phase-V	2002 - 2006	112 million EUR	36
Phase-VI	2007 - 2011	143 million EUR	44

Source: Belspo

Final selection (including multilateral negotiation with universities)

Phase VI
86 expressions received
66 proposals evaluated
44 projects (i.e. networks) funded



Box: IAP Budget allocation – Distribution keys

The distribution of the IAP budget is decided on beforehand (i.e. before submission and evaluation of proposals) and according to two distribution keys : the intercommunity distribution key (between the linguistic communities) and the interuniversity distribution key (between the universities within each community). For phase VI, these pre-established distribution keys were the following:

1. Intercommunity distribution key:
 - a. Universities of the Flemish Community = 56%
 - b. Universities of the French Community = 44%
2. Interuniversity distribution key:

Universities of the Flemish Community		Universities of the French community	
KULeuven	43,070%	UCL	34,50 %
UGent	31,974%	ULB	26,92 %
UA	12,245%	ULg	23,01 %
VUB	11,579%	FUNDP	5,33 %
Uhasselt	2,132%	UMH	3,30 %
		FUCAM	1,86 %
		FSAGx	1,89 %
		FPMs	2,01 %
		FUSL	1,18 %
Total	100%	Total	100%

Source: Belspo

Phase VI key data

The IAP programme, Phase VI – key figures:

- Budget : 143 million EUR
- Duration : 01/2007 – 12/2011
- Organisation :
 - 44 networks of 4 to 15 teams
 - 324 research teams (250 Belgian teams; 74 EU-teams)
- Participants : universities, federal scientific institutions
- Open to participation of non-Belgian universities and public research institutions within the European Union
- Research fields: life sciences, exact and applied sciences, and human and social sciences.

Human resources

Number of staff supported (paid) by the IAP programme – all networks
(headcounts) (by the 1st of January 2009)

Phase VI

Total human resources pool of ca. 5000 researchers

500 researchers were directly paid by IAP programme

By January 1st IAP networks employed 48% à 49% Ph.D. students and 33% à 35% postdocs

Domain	Administrative	PhD Students	Post-docs	Technicians	Total
Life Sciences	7 (3%)	89 (43%)	56 (27%)	56 (27%)	208 (100%)
Exact and Applied Sciences	12 (5%)	95 (43%)	100 (45%)	14 (6%)	221 (100%)
Human and social sciences	5 (5%)	71 (72%)	18 (18%)	5 (5%)	99 (100%)
Total	24 (5%)	255 (48%)	174 (33%)	75 (14%)	528 (100%)

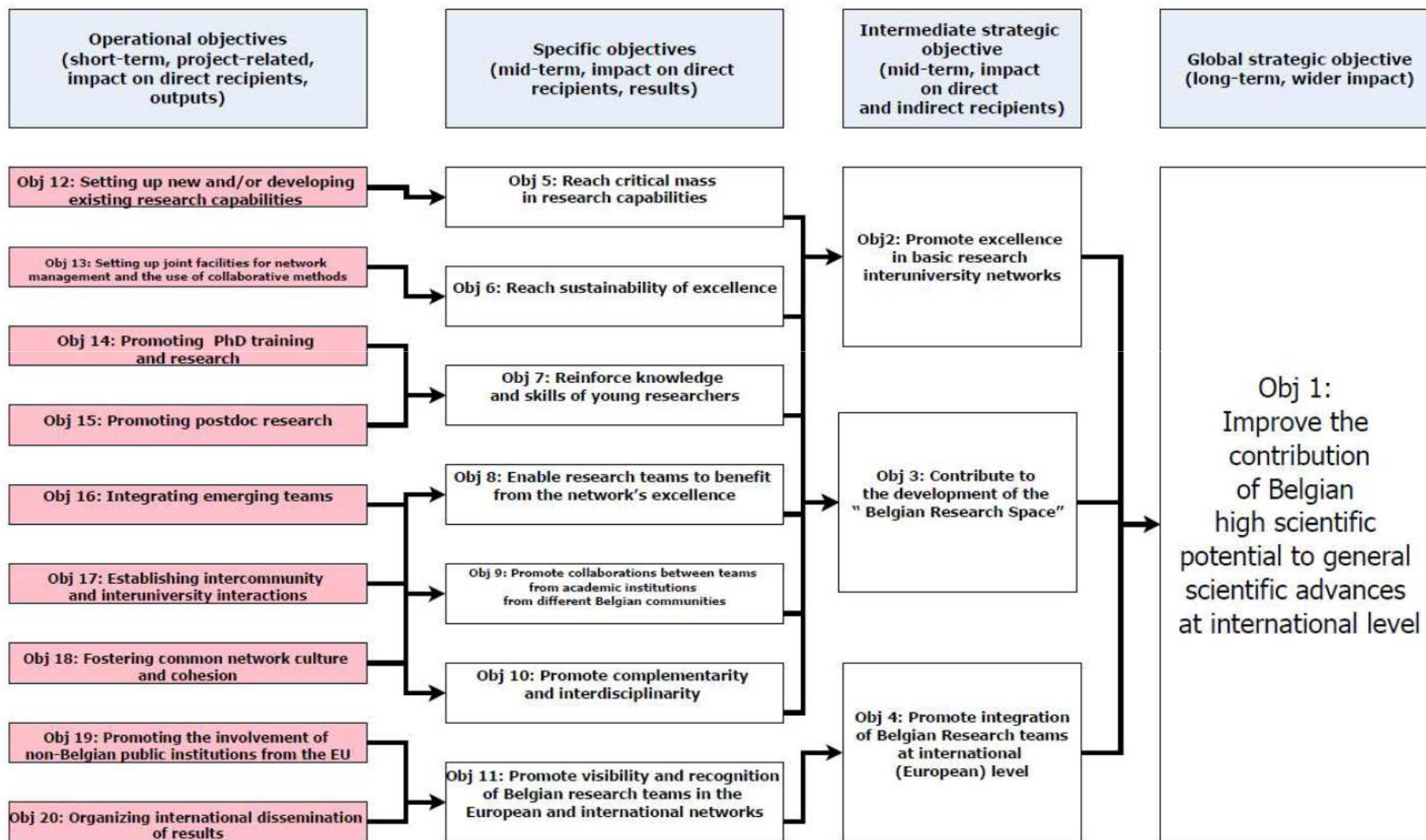
Source: Idea Consult based on Belspo data.

IAP Networks (Phase VI) according to number of years of existence

Domain	Network	Age	Coordinator	Phases under Current Coordinator	Comment
Life Sciences	P6/05	25	VAN SCHAFTINGEN	3	
	P6/12	20	LEO	1	
	P6/13	5	LANCELOT	1	Created under Phase VI
	P6/14	20	PARMENTIER	1	
	P6/15	15	PAYS	3	
	P6/18	20	PIETTE	1	
	P6/19	20	JORIS	1	
	P6/20	10	MARTIAL	2	
	P6/28	20	WUYTACK	1	
	P6/29	20	ORBAN	4	
	P6/30	20	CARMELIET	2	
	P6/31	5	SIPIDO	1	Created under Phase VI
	P6/33	25	INZÉ	3	
	P6/35	5	JOOS	1	Created under Phase VI
	P6/36	5	ROGIERS	1	Created under Phase VI
	P6/38	5	BOSSUYT	1	Created under Phase VI
P6/40	15	PIPELEERS	3		
P6/41	5	BERNEMAN	1	Created under Phase VI	
P6/43	10	VAN BROECKHOVEN	2		
Exact and Applied Sciences	P6/02	5	VAN MOERBEKE	1	Created under Phase VI
	P6/03	10	VAN KEILEGOM	1	
	P6/04	20	GEVERS	4	
	P6/08	5	DELPLANCKE	1	Created under Phase VI
	P6/10	25	EMPLIT	1	Resulted from fusion of two Phase IV networks into one network in Phase V
	P6/11	10	FRERE	2	
	P6/16	5	STRIVAY	1	Created under Phase VI
	P6/17	5	CLOOTS	1	Created under Phase VI
	P6/21	25	BELMANS	1	
	P6/23	25	VAN DUPPEN	2	
	P6/24	25	VAN HOUTTE	2	
	P6/25	5	DE MOOR	1	Created under Phase VI
	P6/26	5	PRENEEL	1	Created under Phase VI
	P6/27	25	JACOBS	1	Resulted from fusion of three Phase III networks into one network in Phase IV
P6/39	5	D'HONDT	1	Created under Phase VI	
P6/42	25	PEETERS	1		
Human & Social Sciences	P6/01	5	ROUSSEAUX	1	Created under Phase VI
	P6/06	15	LENOBLE	3	
	P6/07	20	D'ASPREMONT	3	
	P6/09	15	DEWATRIPONT	3	
	P6/22	20	WAELENS	4	
	P6/32	20	BOONE	3	
	P6/34	20	TANRET	3	
	P6/37	5	DESCHOUWER	1	Created under Phase VI
	P6/44	5	VAN DER AUWERA	1	Created under Phase VI

IAP Networks: logical framework analysis

Figure 5: Reconstructed Intervention Logic of the IAP programme: Hierarchy of objectives



Positioning of the 44 IAP-networks

Table 4-1: IAP Networks Ranking per evaluation dimension (44 networks)

Evaluation Dimension	Cat.	Life Sciences (19)	Exact & Applied Sciences (16)	Human & Social Sciences (9)
1. Research capabilities and critical mass	A	P15, P28, P29, P30, P33, P36, P40	P03, P04, P10, P11, P24, P27	P06, P22
	B	P05, P12, P13, P14, P18, P20, P31, P35, P43	P02, P21, P23	P32, P34
	C	P19, P41	P08, P16, P17, P25, P26, P39, P42	P01, P07, P09, P37, P44
	D	---	---	---
	E	P38	---	---
2. Training and promoting skills and knowledge	A	P20, P29, P35, P36, P43	P04, P10, P21	P01, P34, P37
	B	P12, P13, P15, P18, P19, P28, P31, P33, P41	P08, P11, P23, P24, P25, P27, P39, P42	P06, P07, P22, P32
	C	P14, P30, P40	P03, P16, P26	P09, P44
	D	P05, P38	P02, P17	---
	E	----	---	---
3. Networking, Coordination and Integration	A	P12, P13, P15, P29, P30, P33, P35, P36, P43	P04, P10, P11, P16, P21, P23, P24, P27	P32, P34, P37
	B	P18, P19, P20, P28, P31, P41	P03, P08, P25	P01, P07, P22
	C	P14, P40	P26, P39	P06, P09, P44
	D	---	P02, P17, P42	---
	E	P05, P38	---	---
4. IAP's overall standing	A	P12, P15, P28, P29, P30, P31, P36	P04, P24, P27	P22, P34
	B	P13, P14, P18, P19, P20, P33, P35, P40, P41, P43	P02, P03, P10, P11, P21, P23, P26, P39, P42	P07, P09, P32, P37, P44
	C	---	P08, P16, P17, P25	P01, P06
	D	P05	---	---
	E	P38	---	---
5. Standing and potential of this IAP in the overall programme	A	P12, P13, P15, P28, P29, P36	P03, P04, P08, P10, P11, P21, P27	P07, P22, P34, P37
	B	P18, P20, P30, P31, P35, P40, P43	P02, P23, P24, P25, P26	P32
	C	P05, P14, P19, P33, P41	P16, P39, P42	P01, P06, P09, P44
	D	---	P17	---
	E	P38	---	---

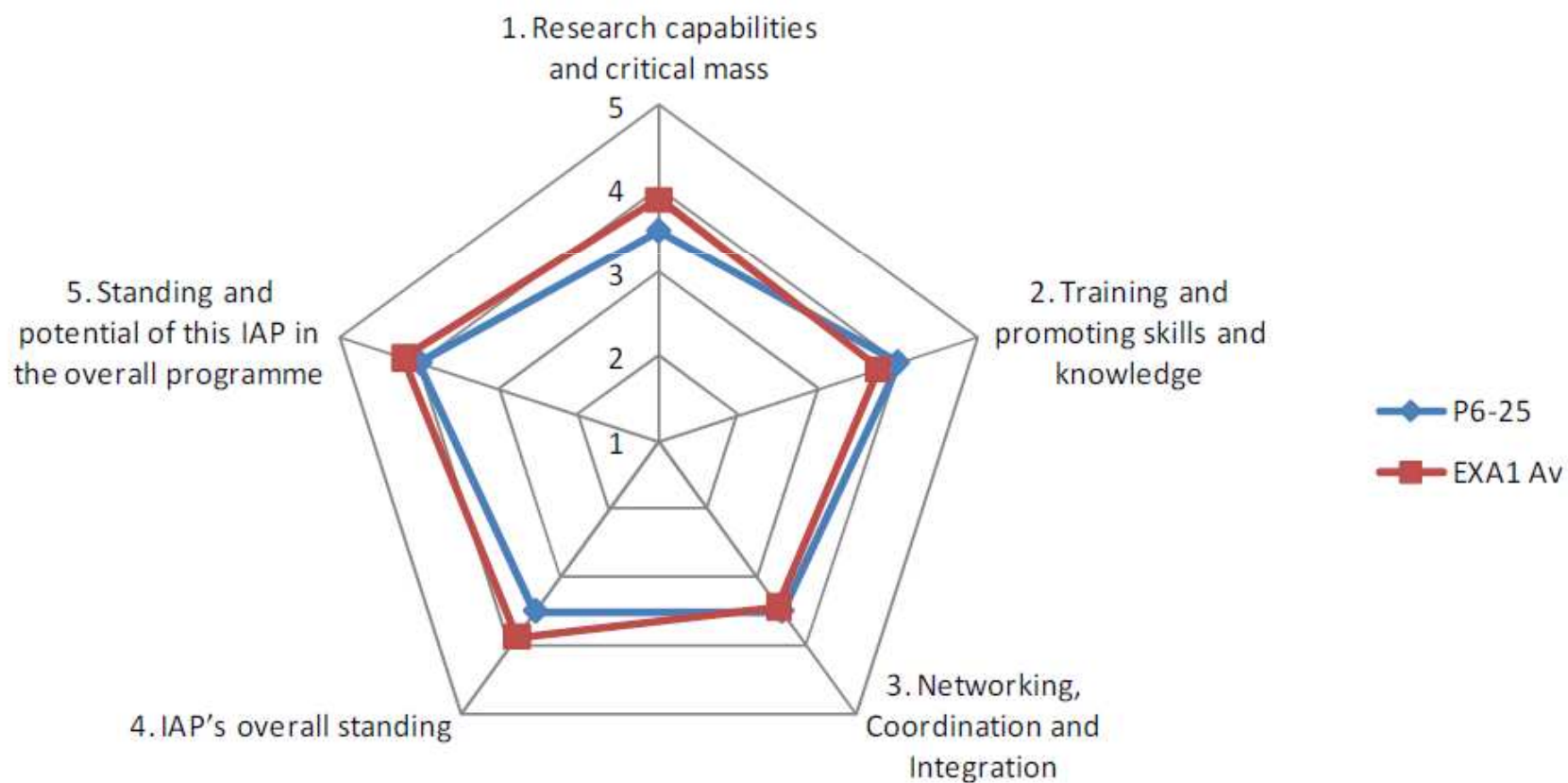
Note: A='Excellent performance'; B='Good performance - Improvement advisable'; C='Improvement recommended', D='Structural adjustment required', and E='Fundamental reconsideration'.

Interuniversity Attraction Pole BioMAGNet (IAP P6/25)

Network level of network P6-25

“Bioinformatics and modelling: from genomes to networks”

Position of the network in relation to the panel average



Network level of network P6-25

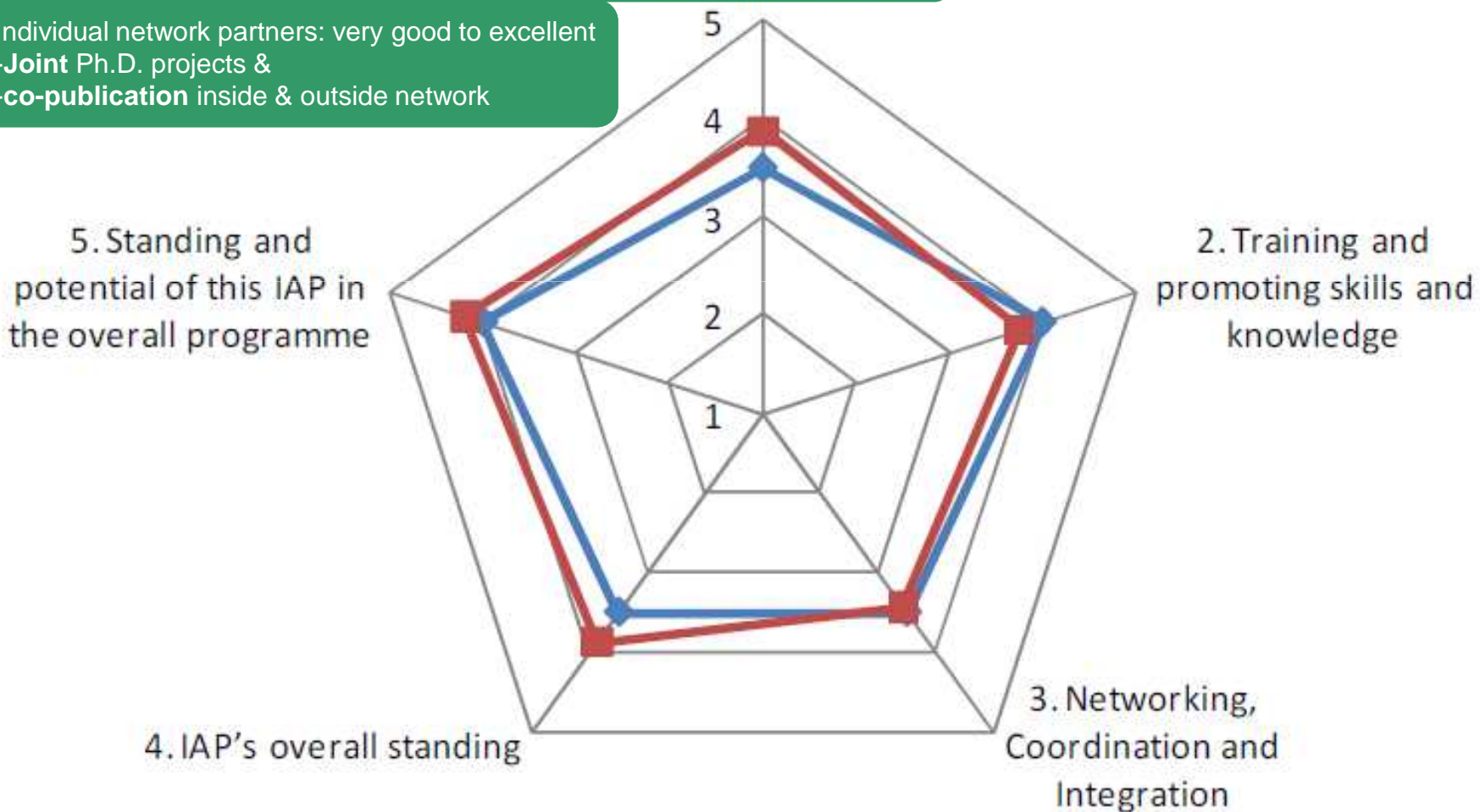
“Bioinformatics and modelling: from genomes to networks”

Medium-sized and **NEW** network:
 ->scientific output: very high quality,
 ->problems & applied methods:
 very impressive

Individual network partners: very good to excellent
 -**Joint** Ph.D. projects &
 -**co-publication** inside & outside network

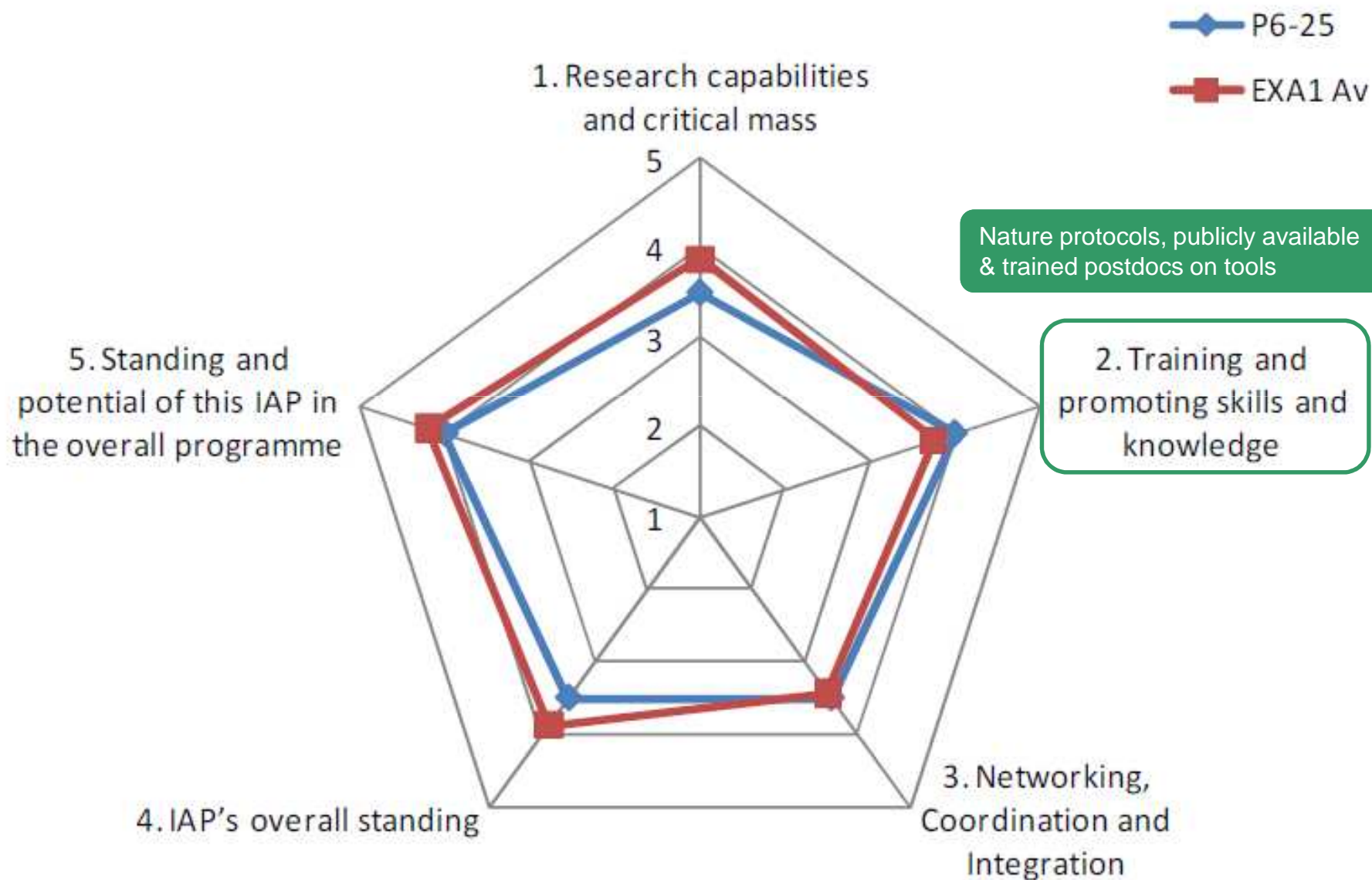
1. Research capabilities
 and critical mass

—◆— P6-25
 —■— EXA1 Av



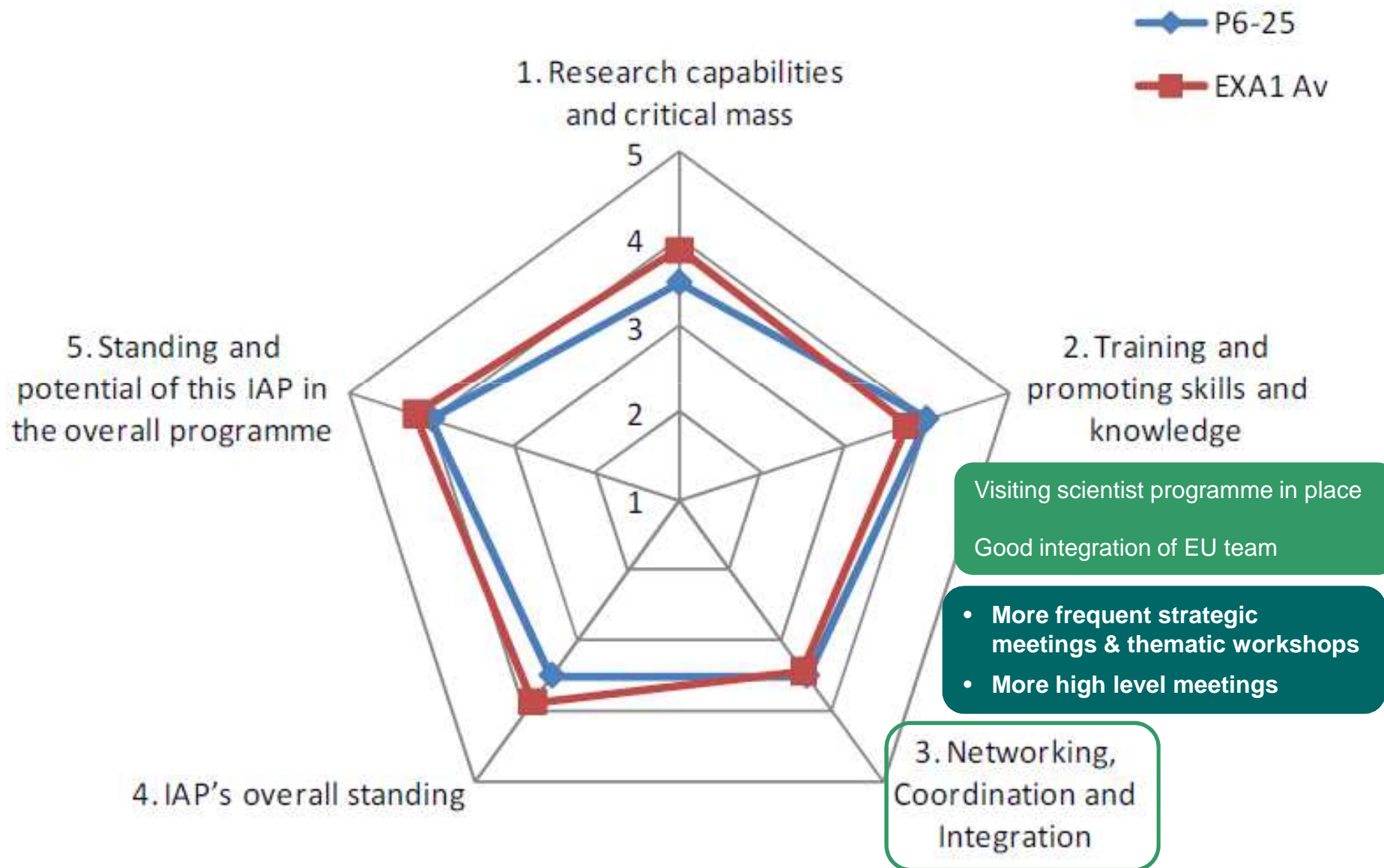
Network level of network P6-25

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Network level of network P6-25

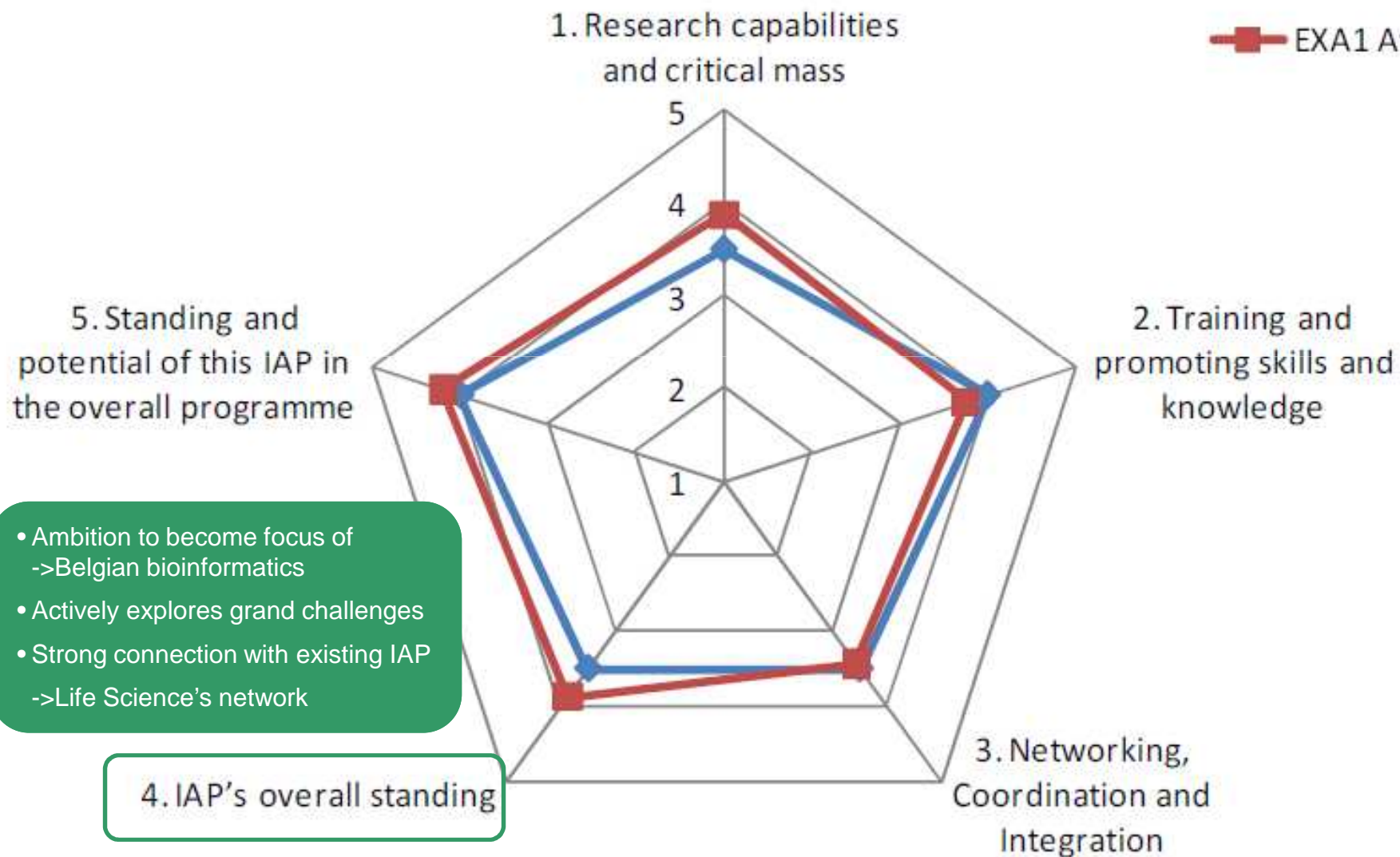
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Network level of network P6-25



“Bioinformatics and modelling: from genomes to networks”

 P6-25
 EXA1 Av



Network level of network P6-25

“Bioinformatics and modelling: from genomes to networks”

 P6-25
 EXA1 Av

1. Research capabilities and critical mass

5

4

3

2

1

2. Training and promoting skills and knowledge

3. Networking, Coordination and Integration

4. IAP's overall standing

- Possible future high potential critical mass
- Ways of synergies between network partners

5. Standing and potential of this IAP in the overall programme

- Build further on critical mass
- Develop and integrate other complementaries
->e.g. imaging, biobanks, NGS
- Plan activity involving wet labs (e.g. outreach activity)

