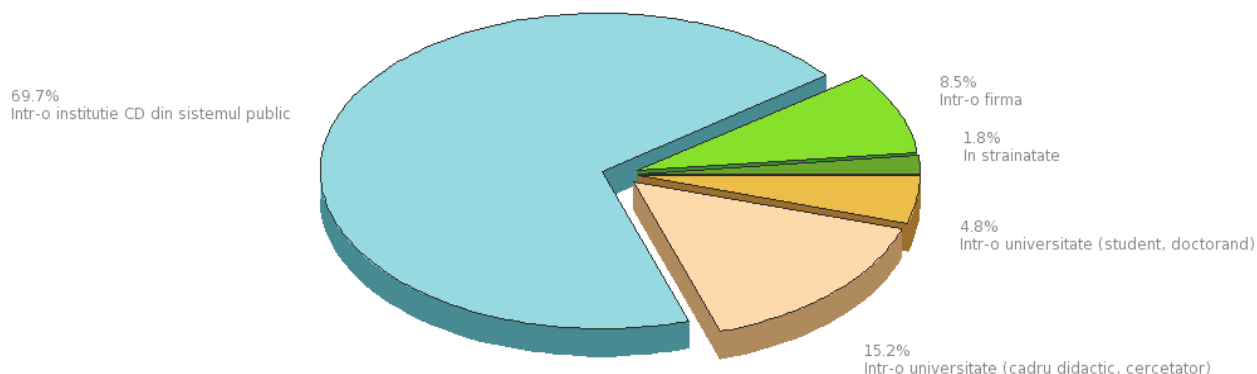


Anexa 2.7 Consultare on-line specialisti din tara si diaspora (mai 2011)

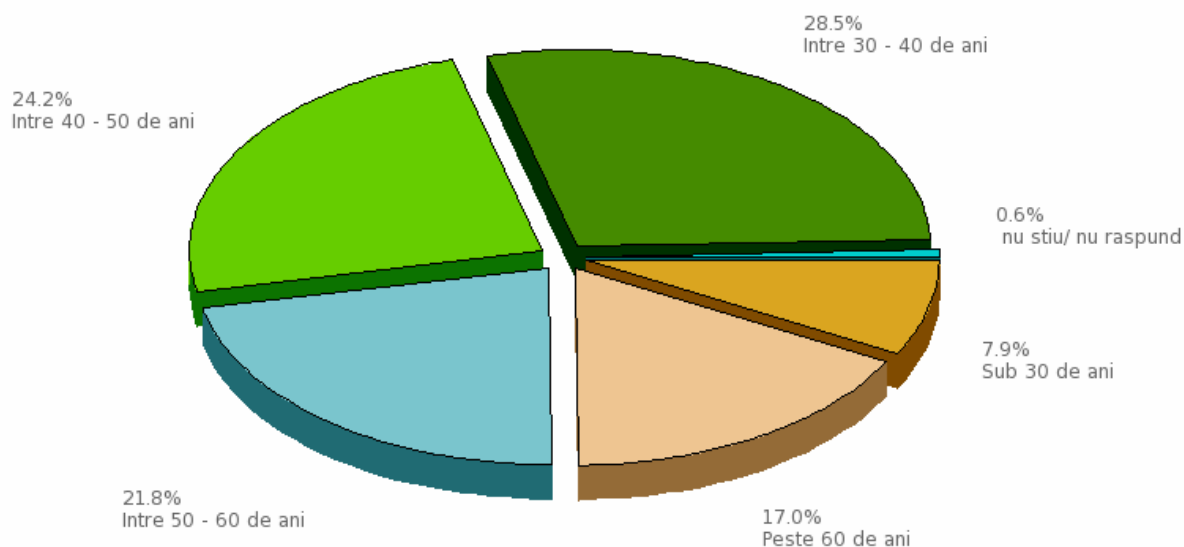
Chestionar NANOPROSPECT privind sistemul CDI in nanotehnologii, la scara nationala

165 de respondenti din sistemul de cercetare intern

Distributia pe tipuri de institutii unde au activat/activeaza preponderent respondentii in 2005-2010



Distributia pe varsta a respondentilor

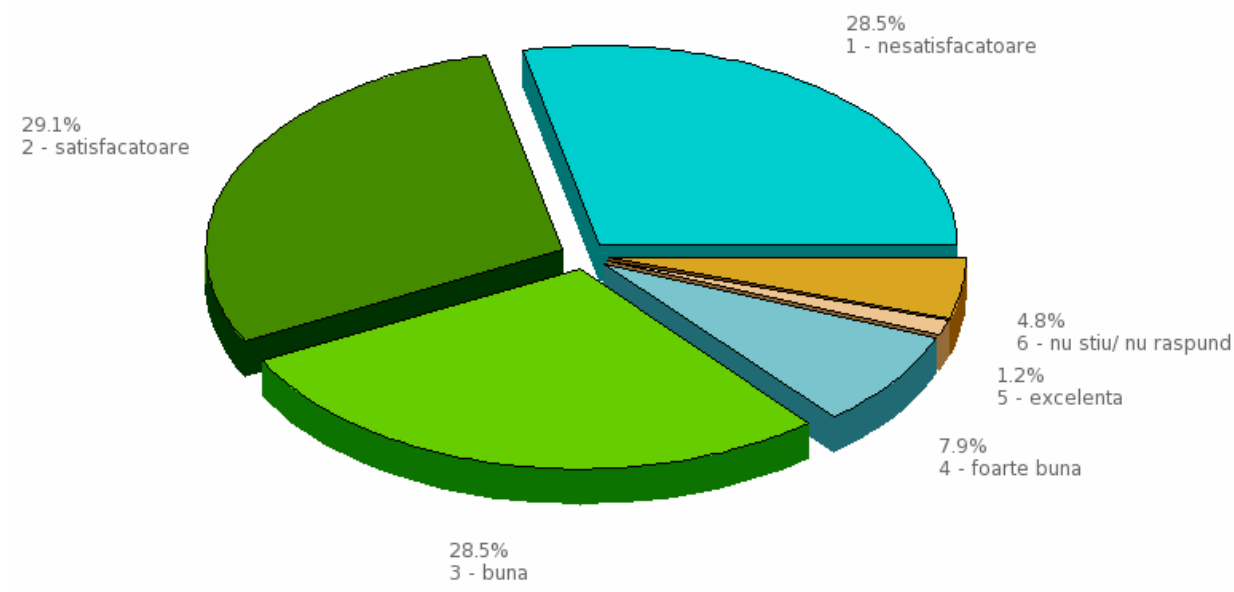


A. Situatiia nanotehnologiilor in cadrul sistemului national CDI pentru perioada 2005 - 2011. Aprecierile pot contribui la determinarea "punctelor tari" si a "punctelor slabe" ale sistemului cu referire la nanotehnologii.

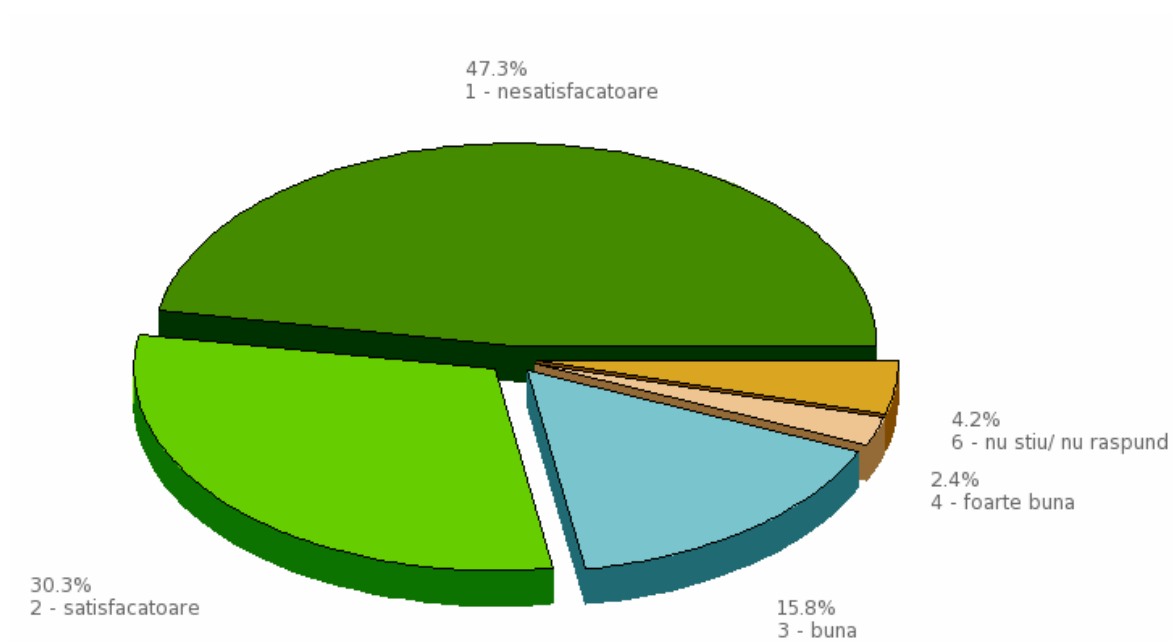
Cum apreciati situatia pentru fiecare subpunct, pe o scara de la 1 la 5? Semnificatia generala cifrelor este urmatoarea: 1 - nesatisfacatoare; 2 - satisfacatoare; 3 - buna; 4 - foarte buna; 5 - excelenta. Bifati ce corespunde. *Nu sunteti obligati sa faceti aprecieri la toate subpunctele: nebifarea unui calificativ la un subpunct oarecare echivaleaza cu "nu stiu"/"nu raspund" in sondajele obisnuite. Cu alte cuvinte, aceasta abtinere poate insemna nu numai lipsa unor informatii adecvate, ci si faptul ca respondentul nu considera criteriul respectiv ca fiind relevant.*

1. Situatia generala a domeniului

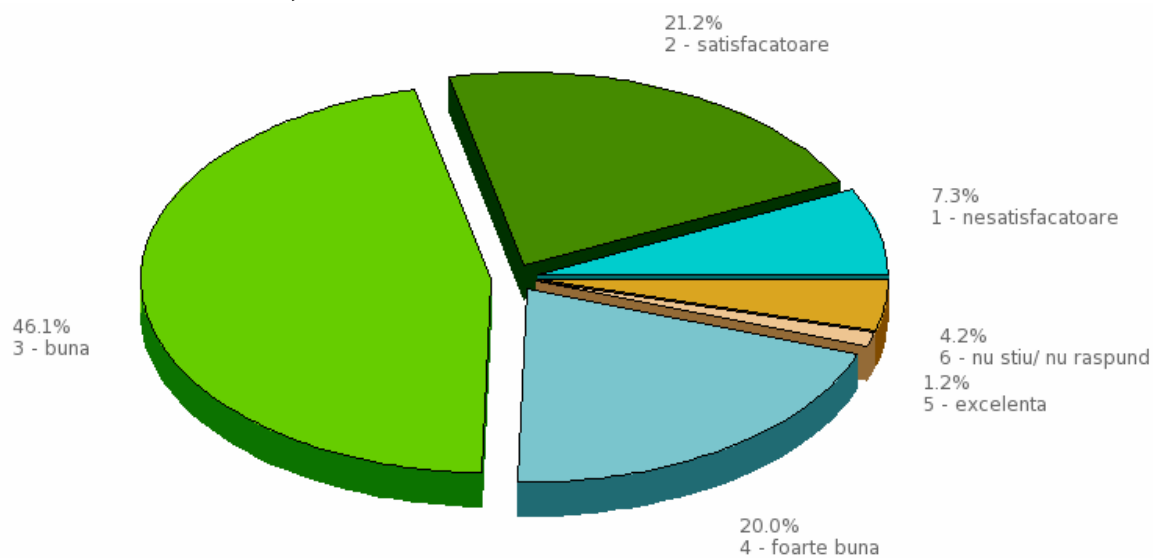
a. Existenta si implementarea unei strategii in domeniu;



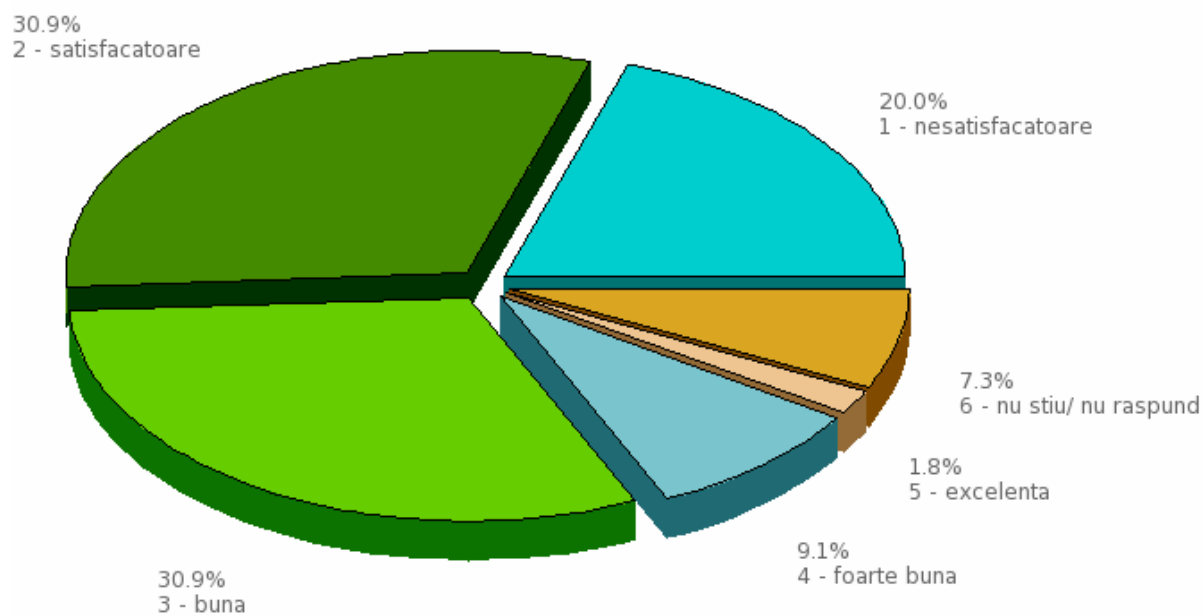
b. Nivelul de finantare a domeniului;



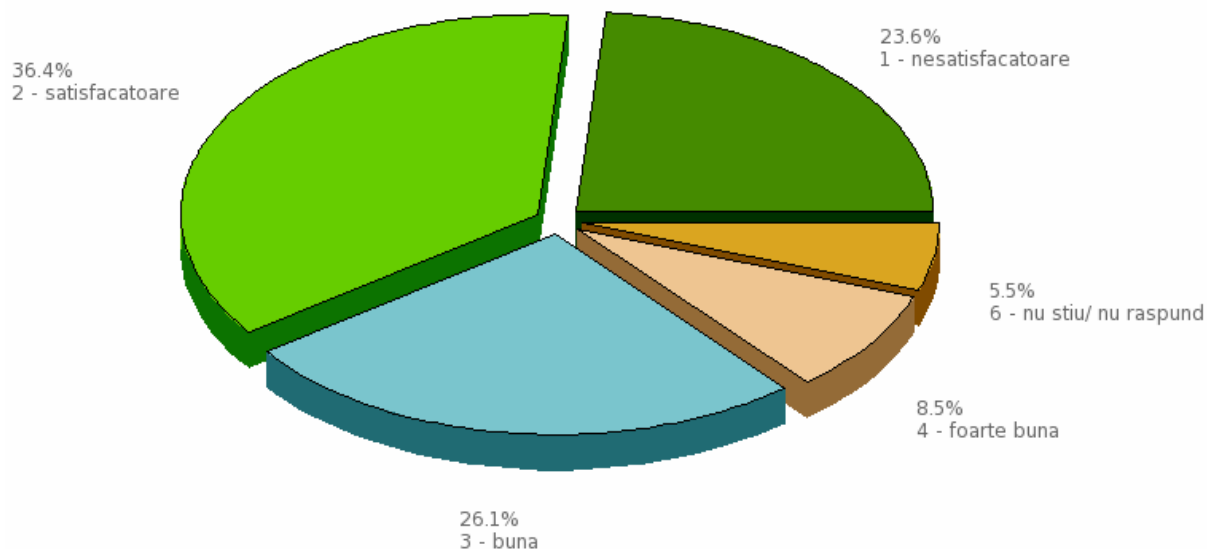
c. Calitatea infrastructurii;



d. Existenta unor aplicatii demonstrate in diverse domenii;

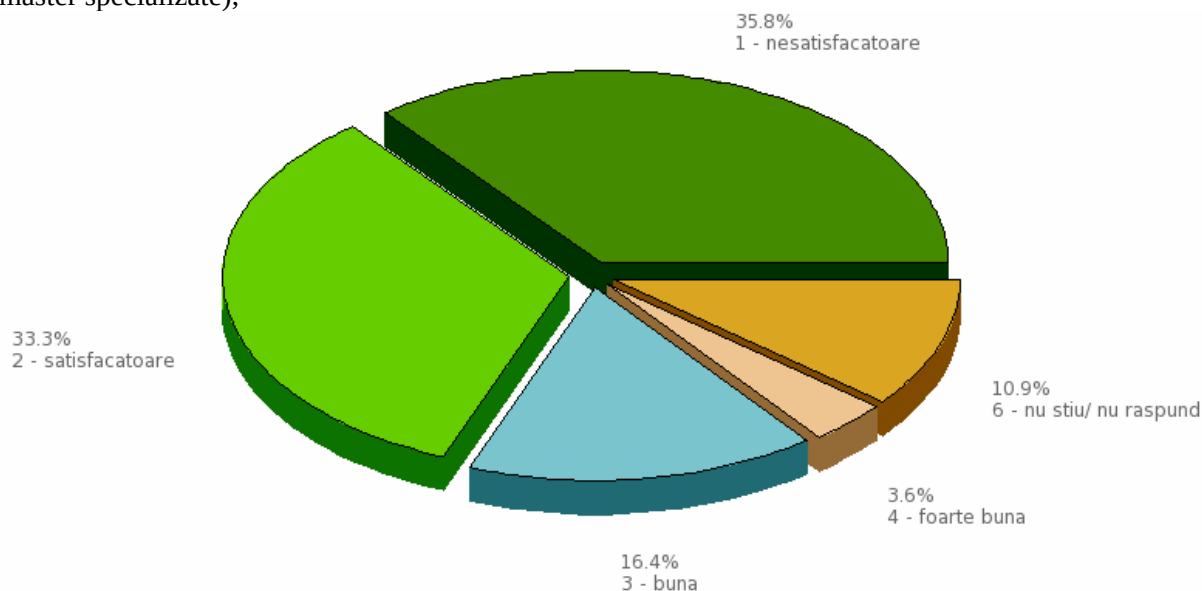


e. Existenta unei concentrari eficiente a resurselor umane si materiale pe anumite directii tematice de cercetare.

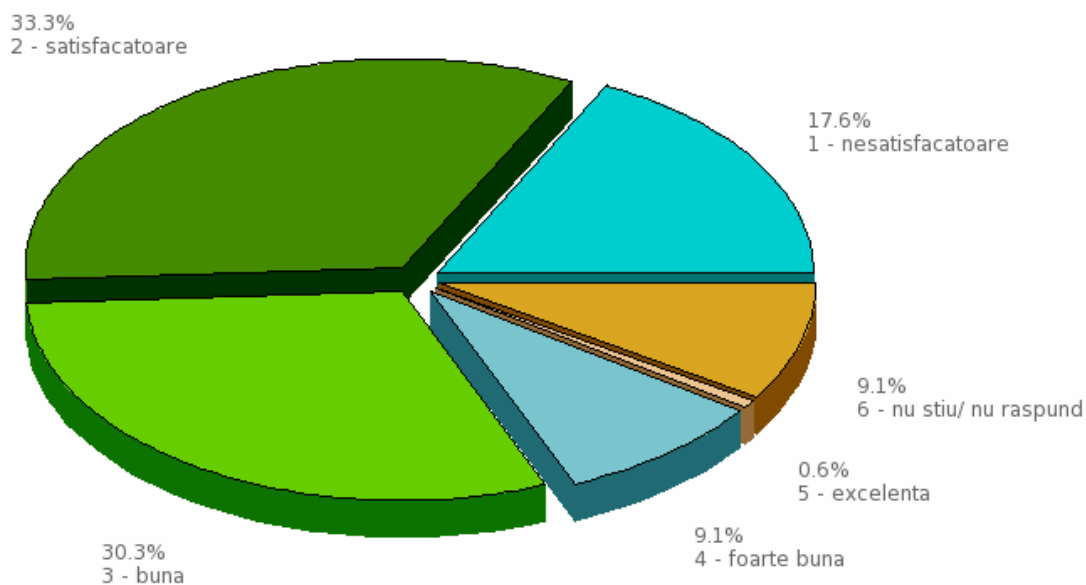


2. Ce s-a facut in tara pentru dezvoltarea resurselor umane in domeniul nanotehnologiilor (din experienta dumneavoastra personala si din contacte directe - in ce masura au fost si sunt in prezent relevante activitatile de mai jos, pe o scara de la 1 la 5)

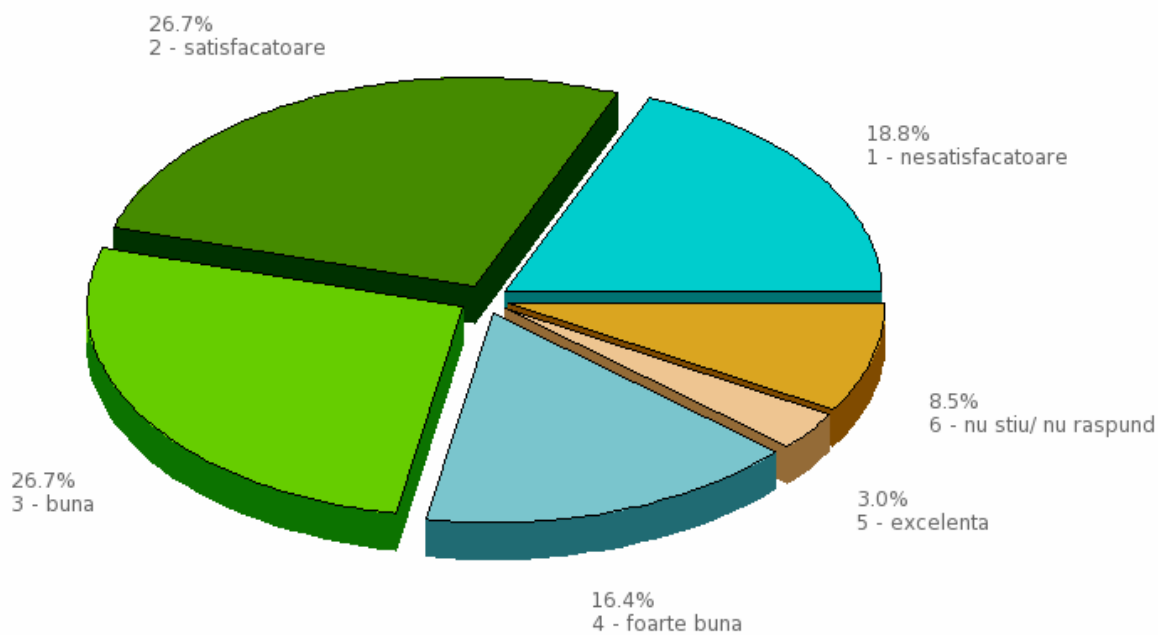
a. Formarea multidisciplinara prin programa de invatamant din universitati (discipline sau cursuri de master specializate);



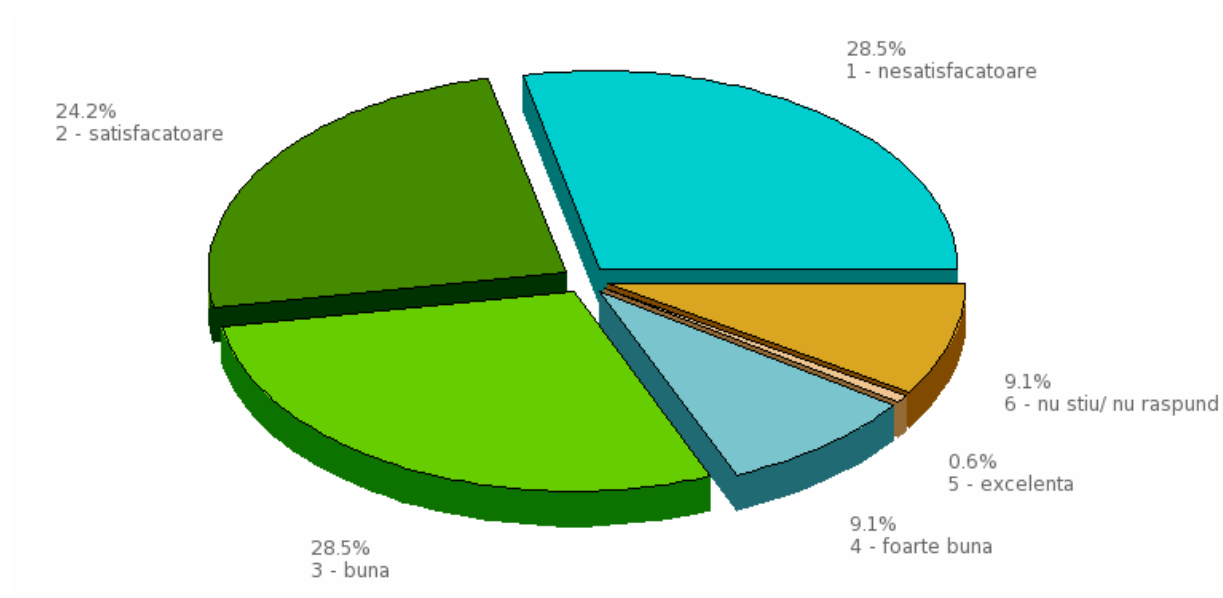
b. Formarea multidisciplinara prin scoli de doctorat si programe postdoctorale



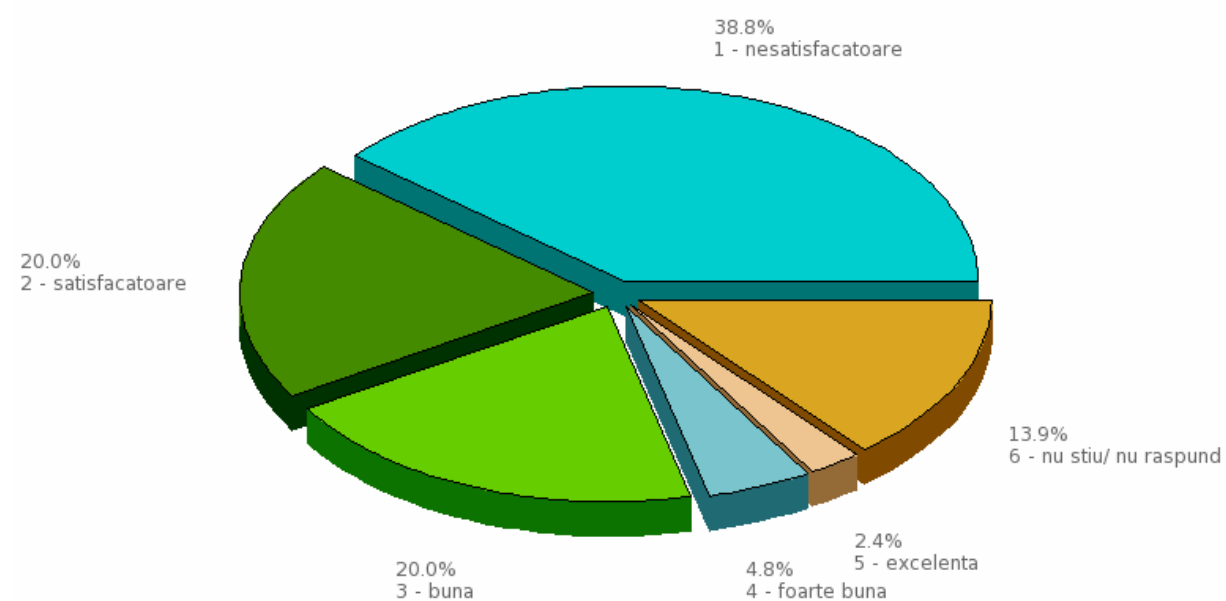
c. Formarea interdisciplinara prin cercetare (in echipe polidisciplinare etc.);



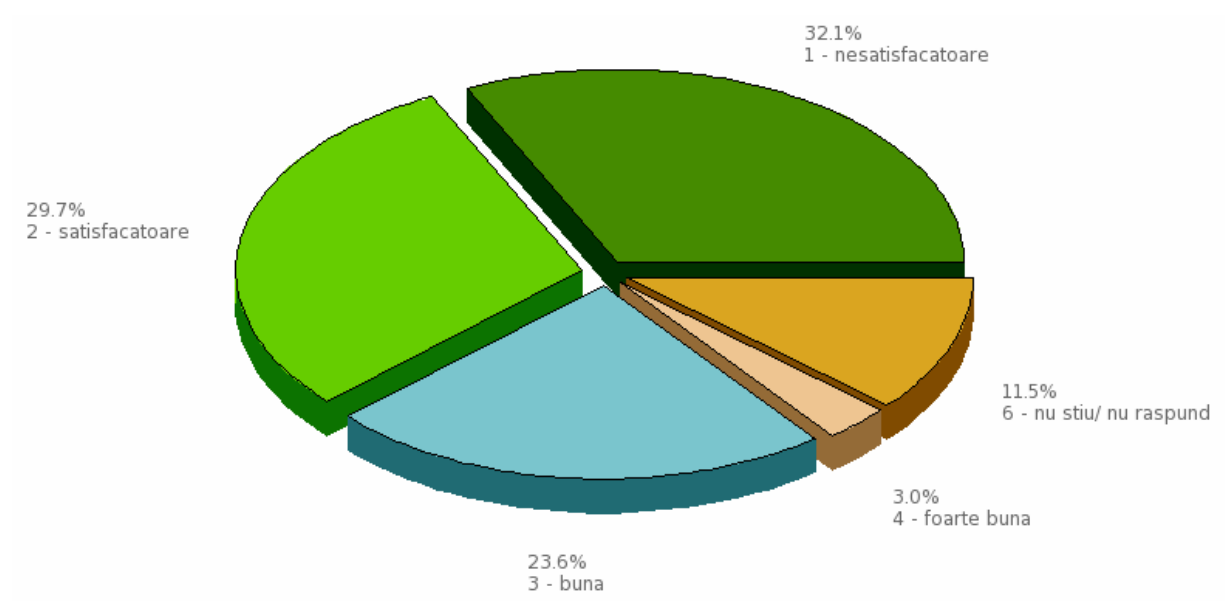
d. Sprijinirea cercetatorilor tineri (finantare, conditii de lucru, promovare);



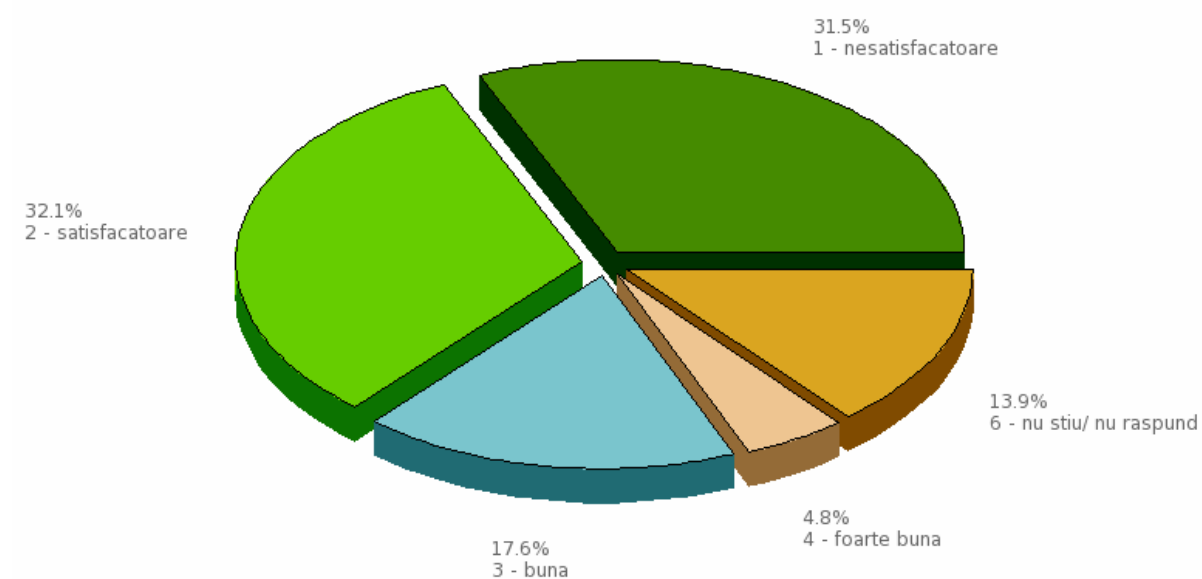
e. Sprijinirea specialistilor reveniti dupa studii/activitate de durata in strainatate (finantare, conditii de lucru, promovare);



f. Recunoasterea performantei si a calitatilor reale pentru cercetare:

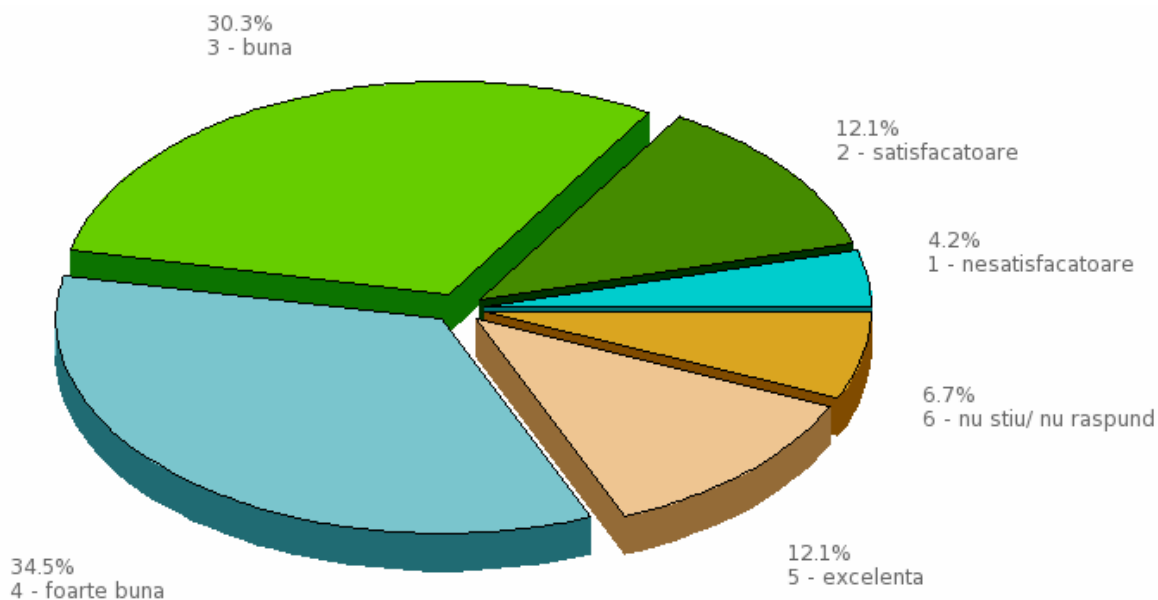


g. Aprecierea spiritului inovativ si a calitatilor antreprenoriale.

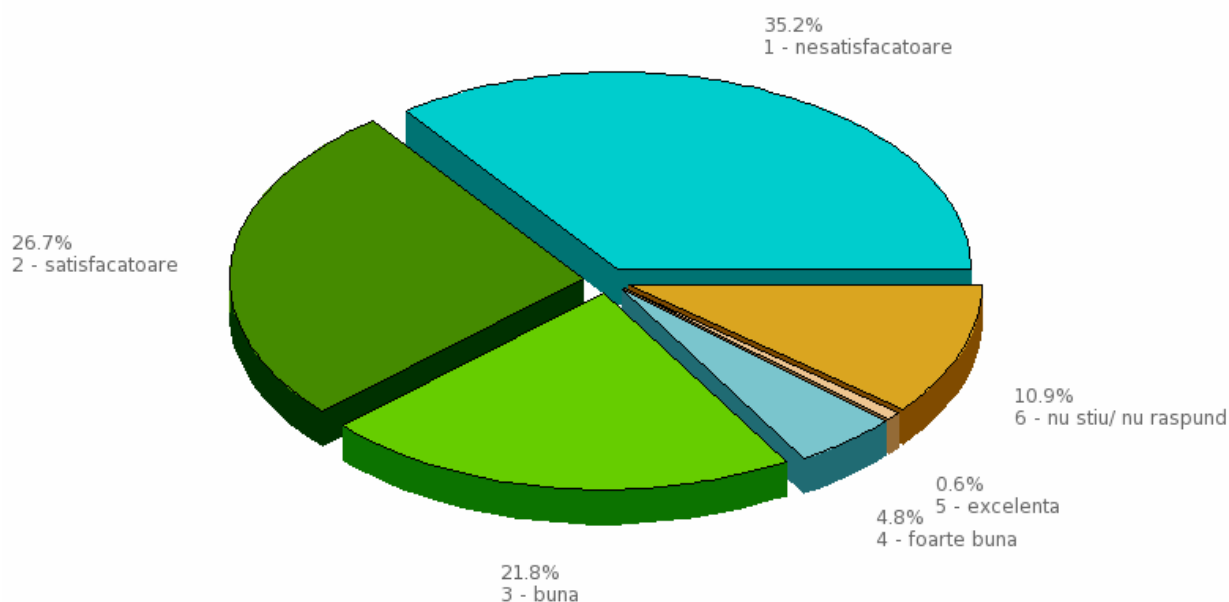


3. Care este situatia infrastructurii experimentale utilizate in domeniul nanotehnologiilor (din experienta dumneavoastra personala si din colaborari directe - cum apreciati situatia, pe o scara de la 1 la 5)

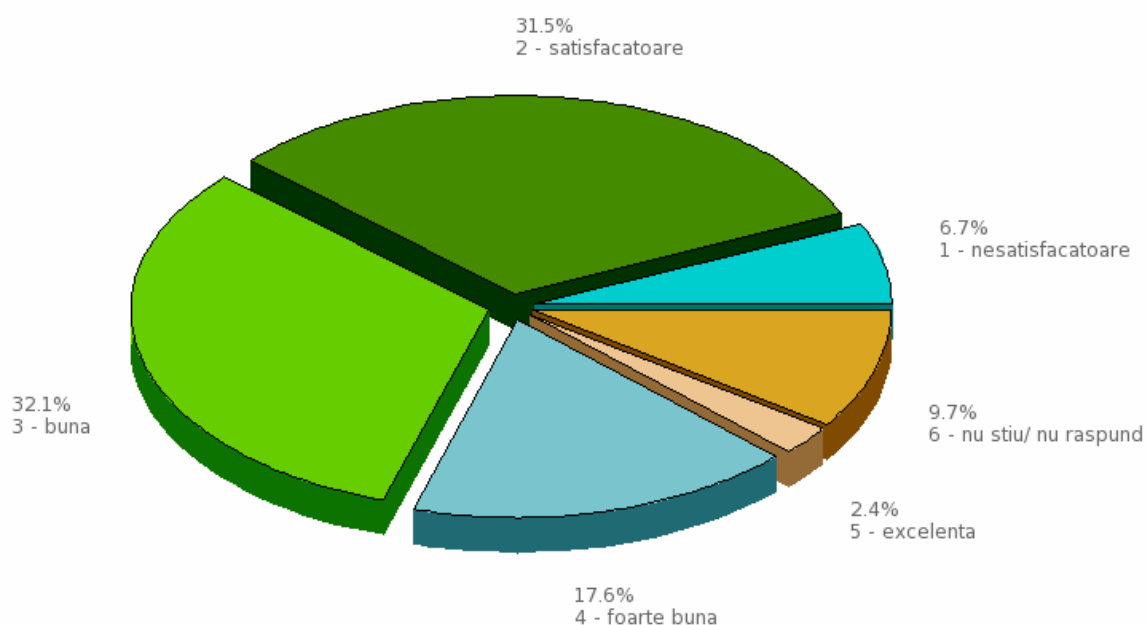
a. Cum apreciati calitatea dotarilor experimentale achizionate in perioada mentionata;



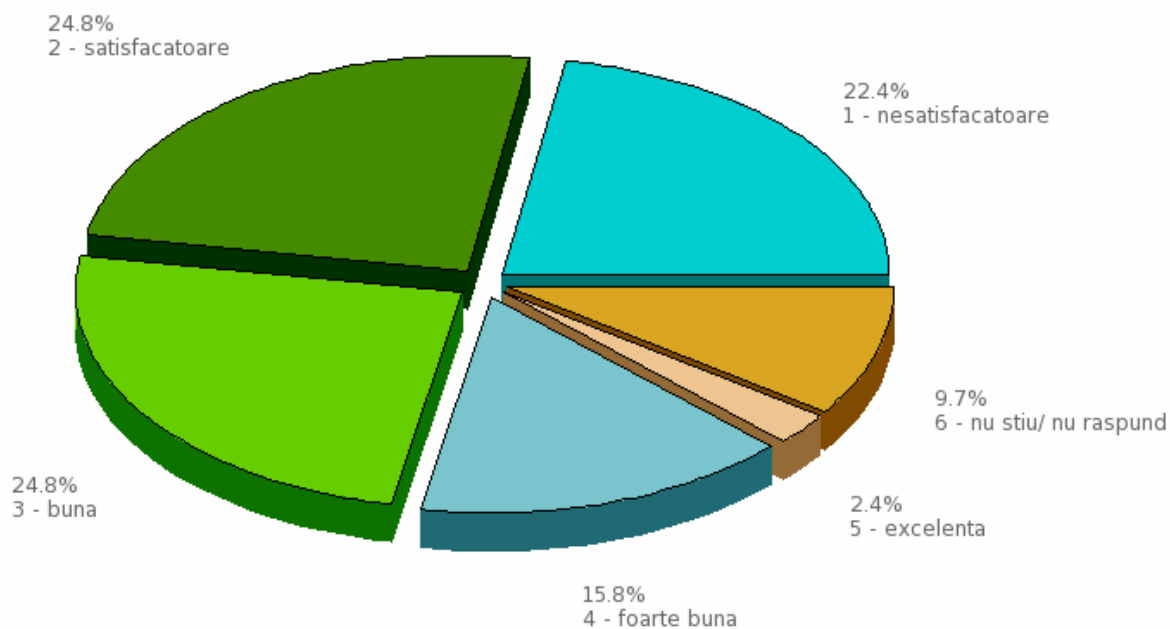
b. Cum apreciati coerenta si perspectiva activitatii de investitii;



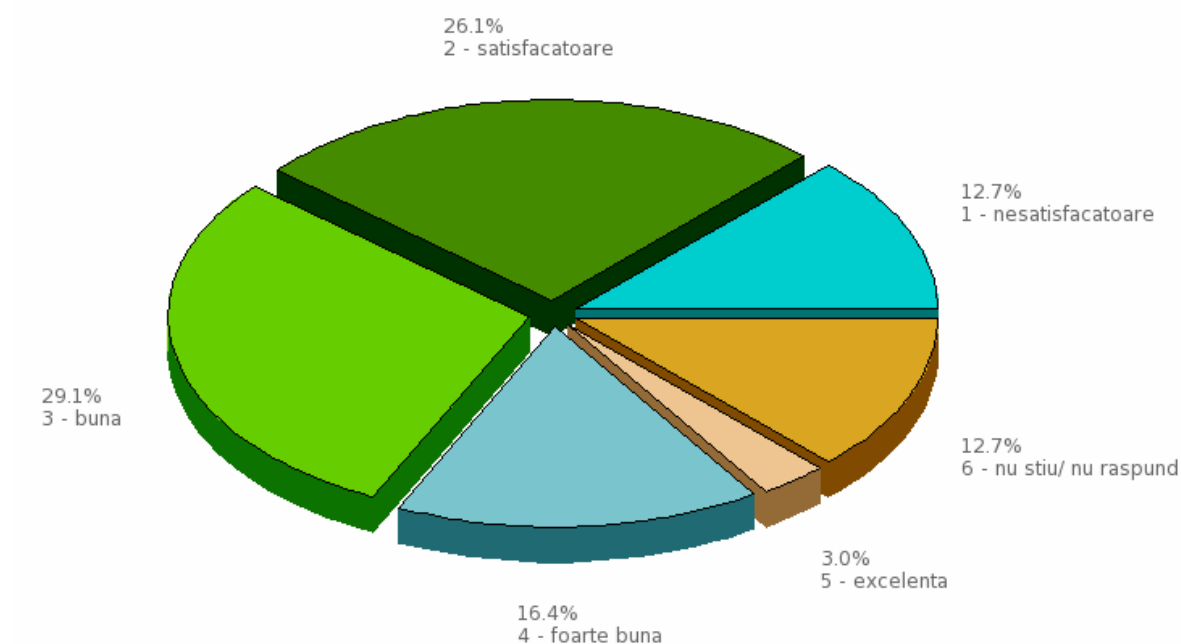
c. In ce masura instalarea si exploatarea dotarilor respective asigura performante tehnice maxime;



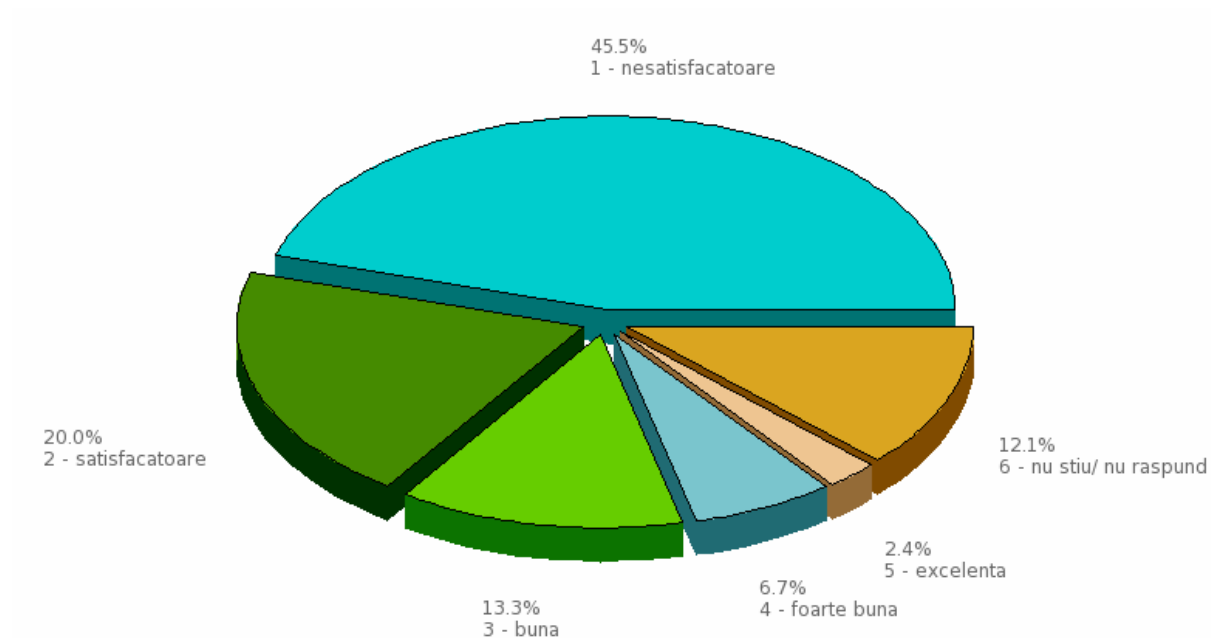
d. In ce masura dotarile respective sunt folosite la maximum in activitati de cercetare si dezvoltare, inclusiv prin accesul unor cercetatori din alte colective, alte discipline, alte organizatii etc.;



e. In ce masura echipamentele existente au o contributie semnificativa la procesul educativ;

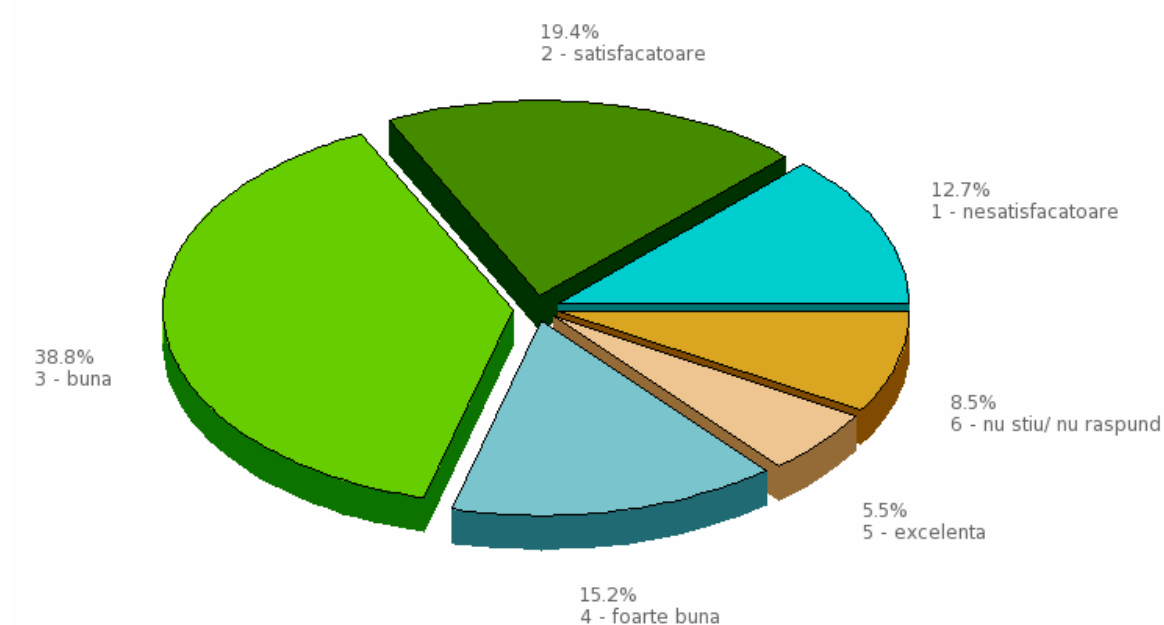


f. In ce masura echipamentele respective joaca un rol in relatia cu industria.

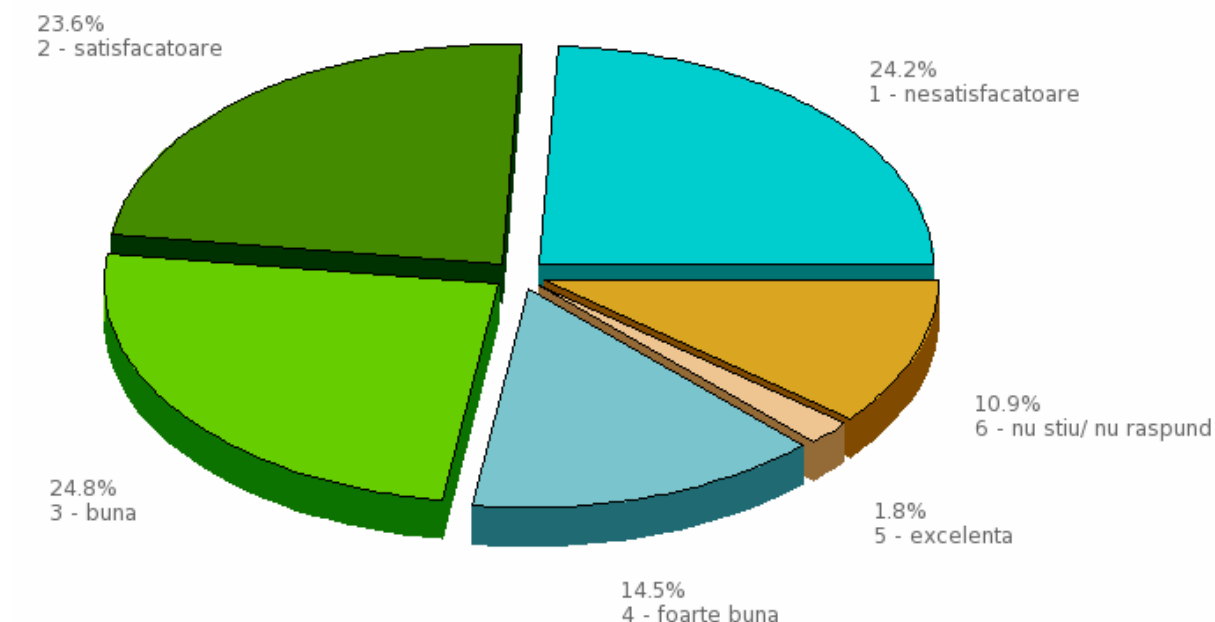


4. Derularea contractelor din programele nationale (din experienta dumneavoastra personala, cum apreciati situatia, pe o scara de la 1 la 5; majoritatea intrebarilor nu sunt specifice domeniului)

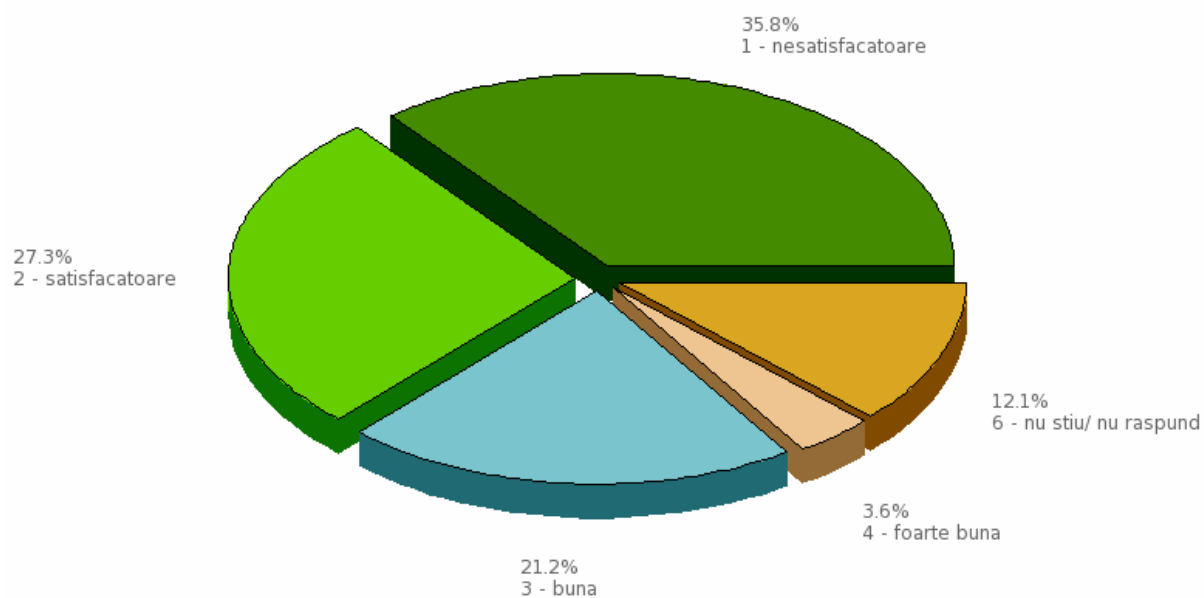
a. Prezenta nanostiintei si nanotehnologiei in programele nationale



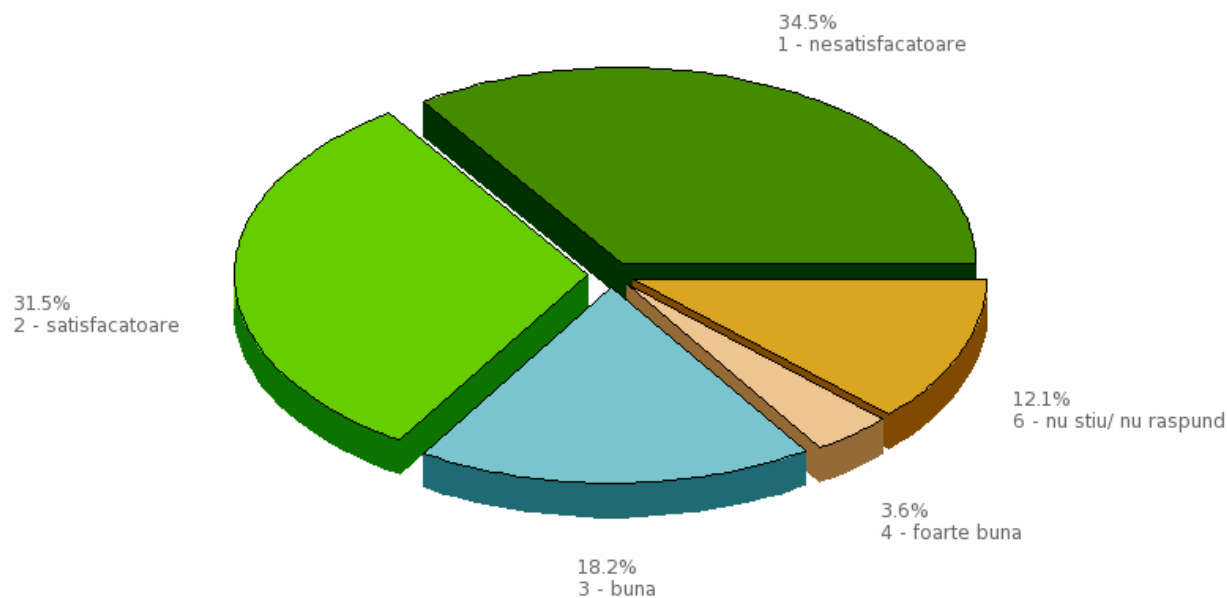
b. Focalizarea pe o tematica reprezentativa (de nivel mondial, legata de prioritatile nationale etc.);



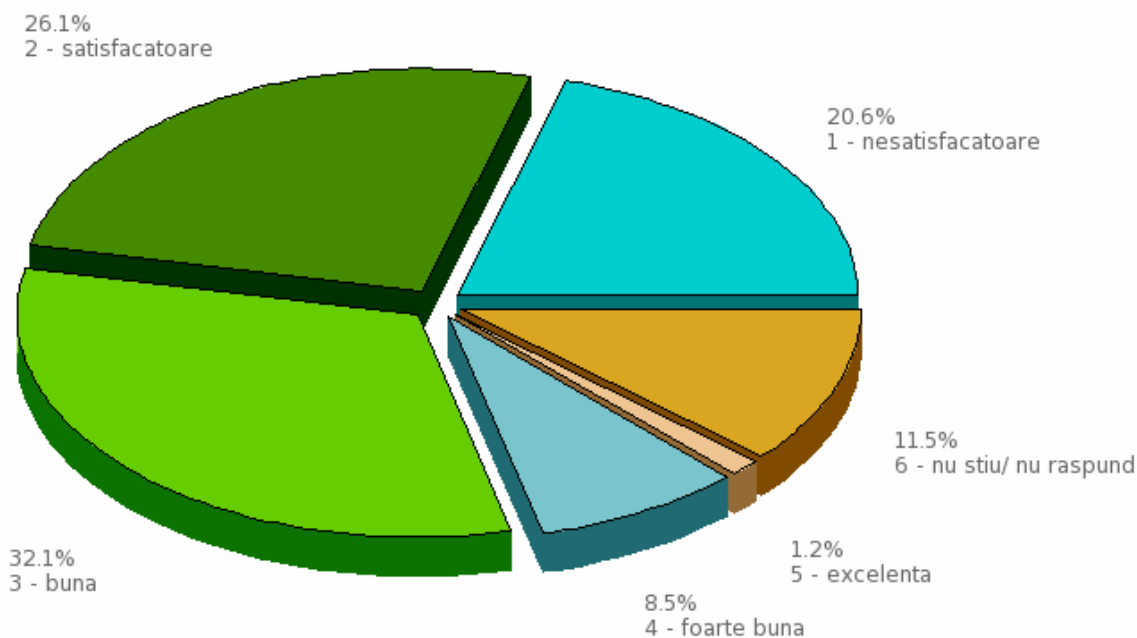
c. Existenta unor criterii judicioase de selectie a propunerilor de proiecte;



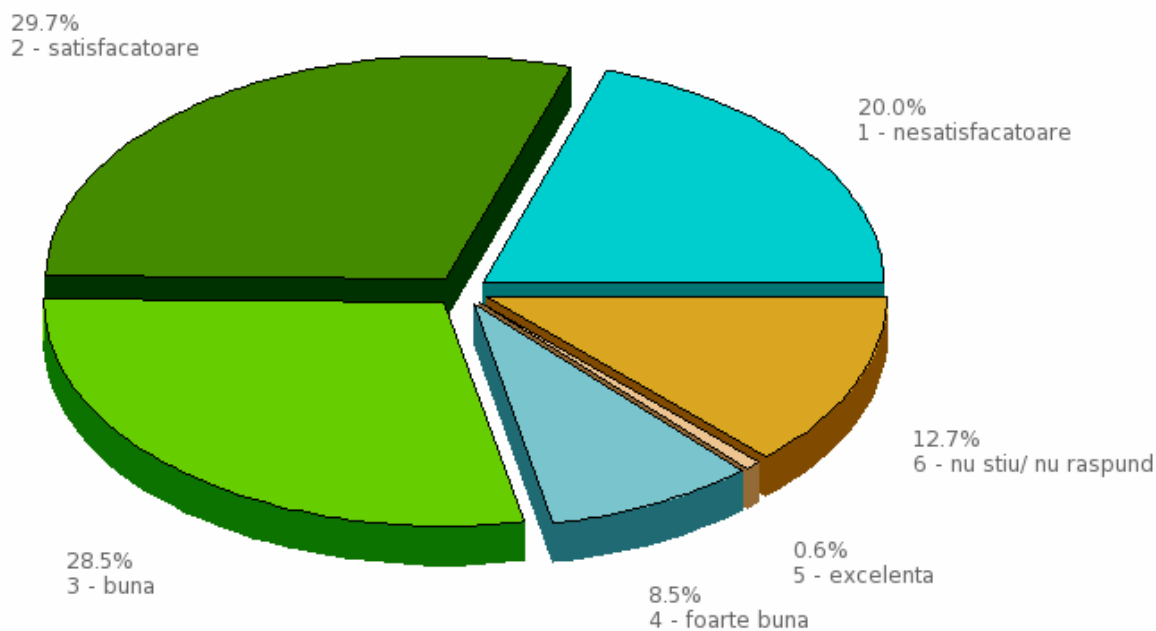
d. Adecvarea finantarii, ca marime si structura a cheltuielilor;



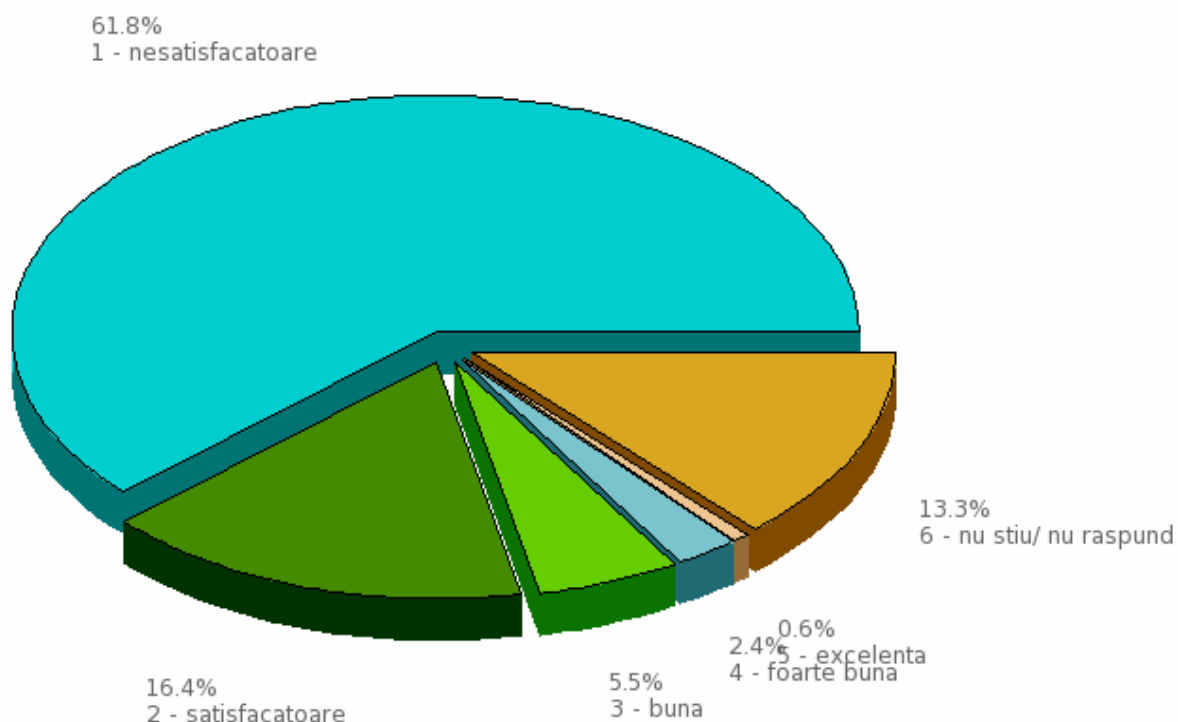
e. Monitorizarea derularii si rezultatelor cercetarii de catre finantator;



f. Valoarea criteriilor de apreciere a rezultatelor cercetarii;

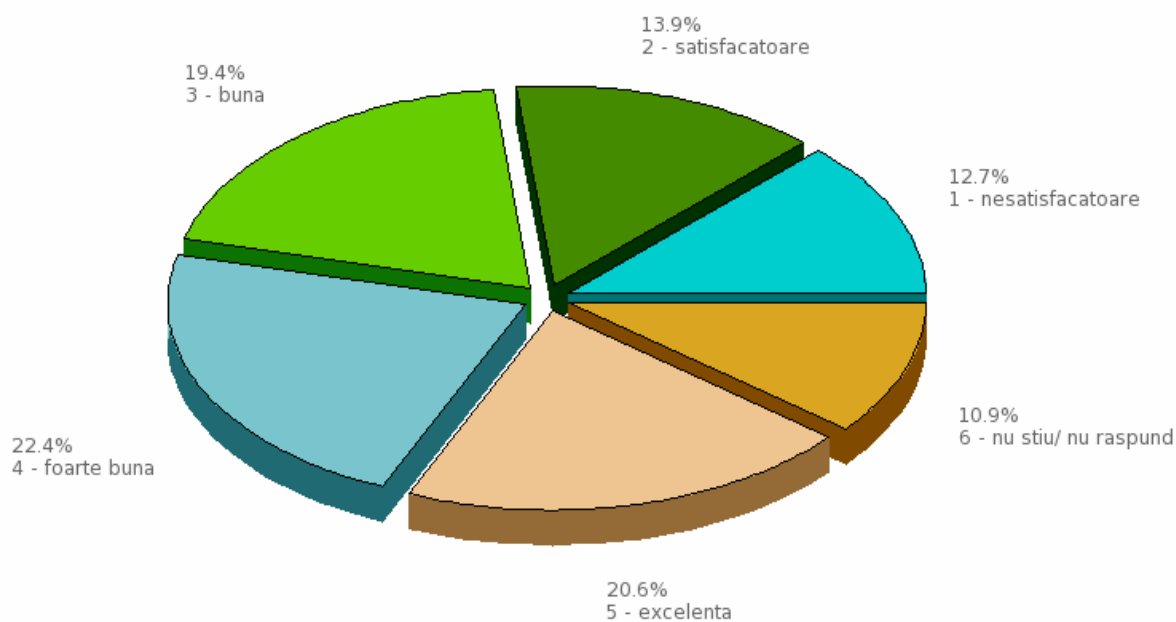


g. Asigurarea continuitatii cercetarii (de la faza "exploratorie", la valorificarea in industrie etc.) prin proiecte succesive, finantate din diverse programe nationale.

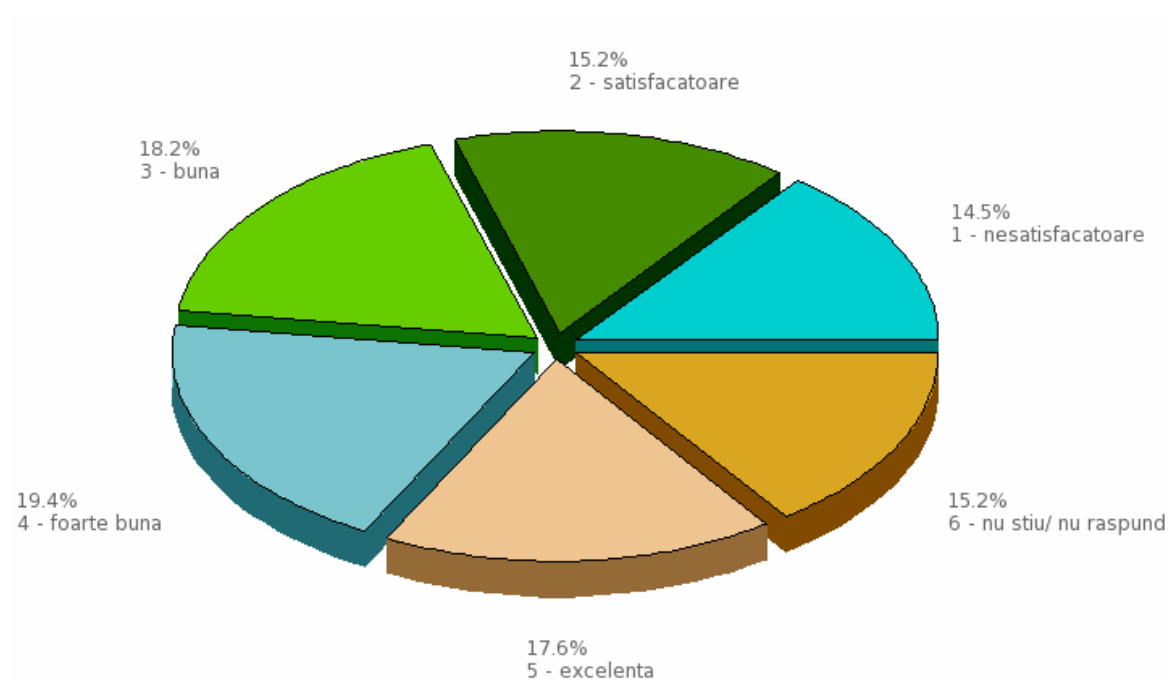


5. Importanta colaborarilor internationale, in special a celor europene (pe baza experientei si a cunoasterii realitatilor din tara, apreciati cat de importante sunt in momentul de fata un aspect sau altul, folosind note intre 1 si 5)

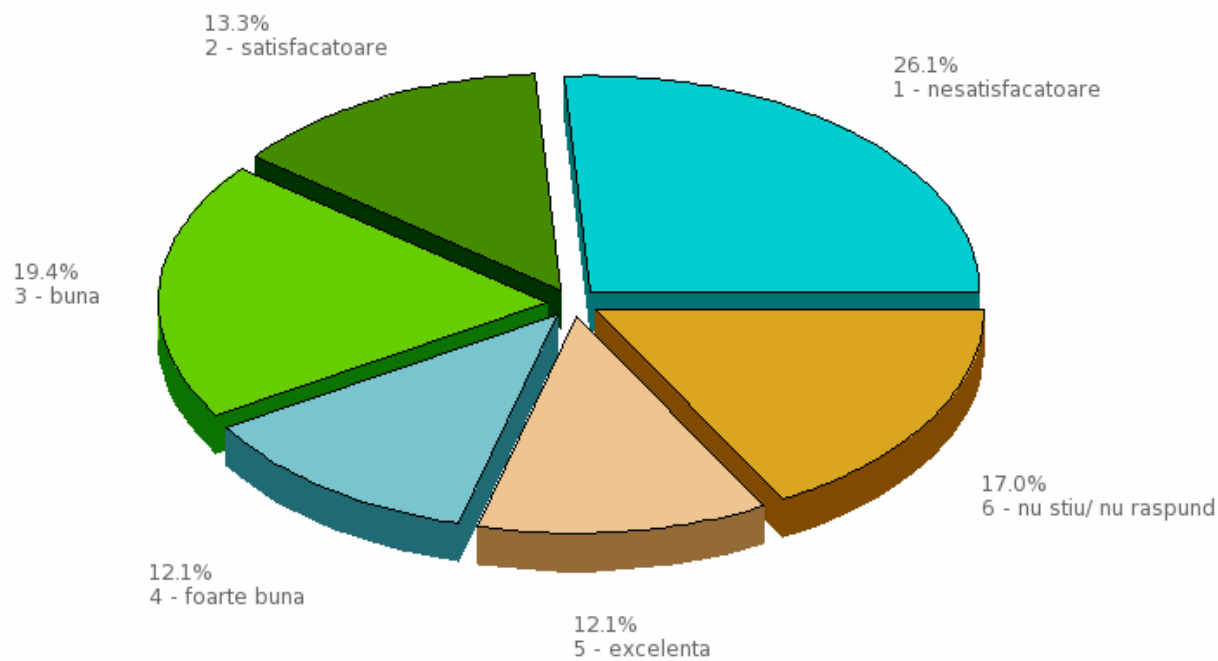
a. Facilitarea participarii la cercetari avansate;



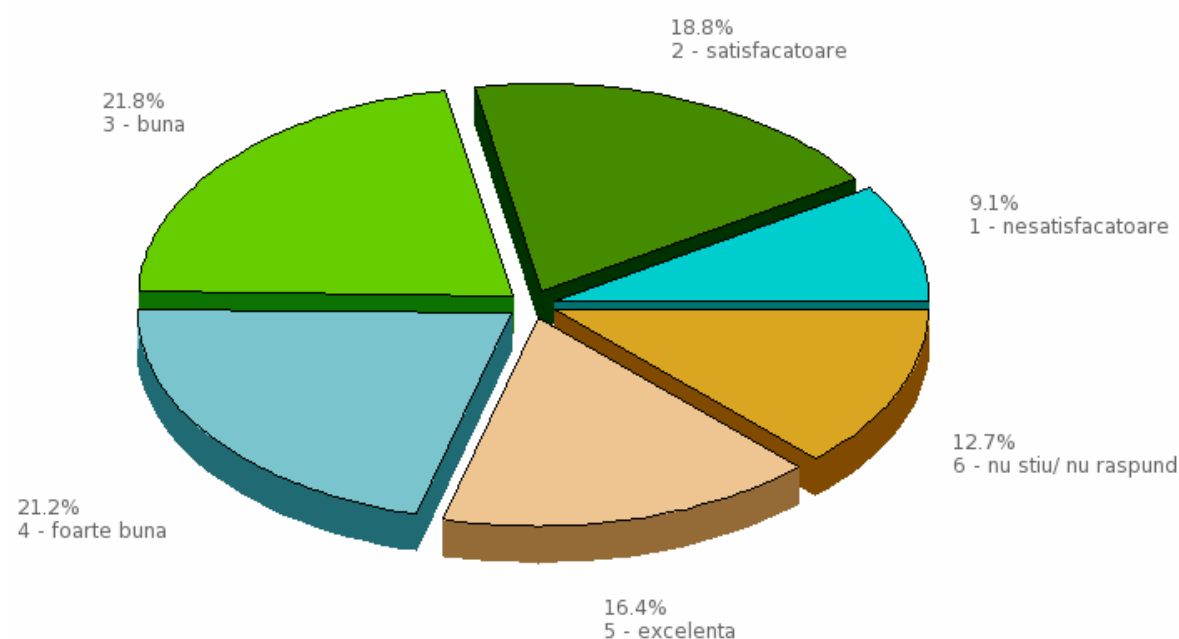
b. Accesul la facilitati si know-how inexistente in Romania;



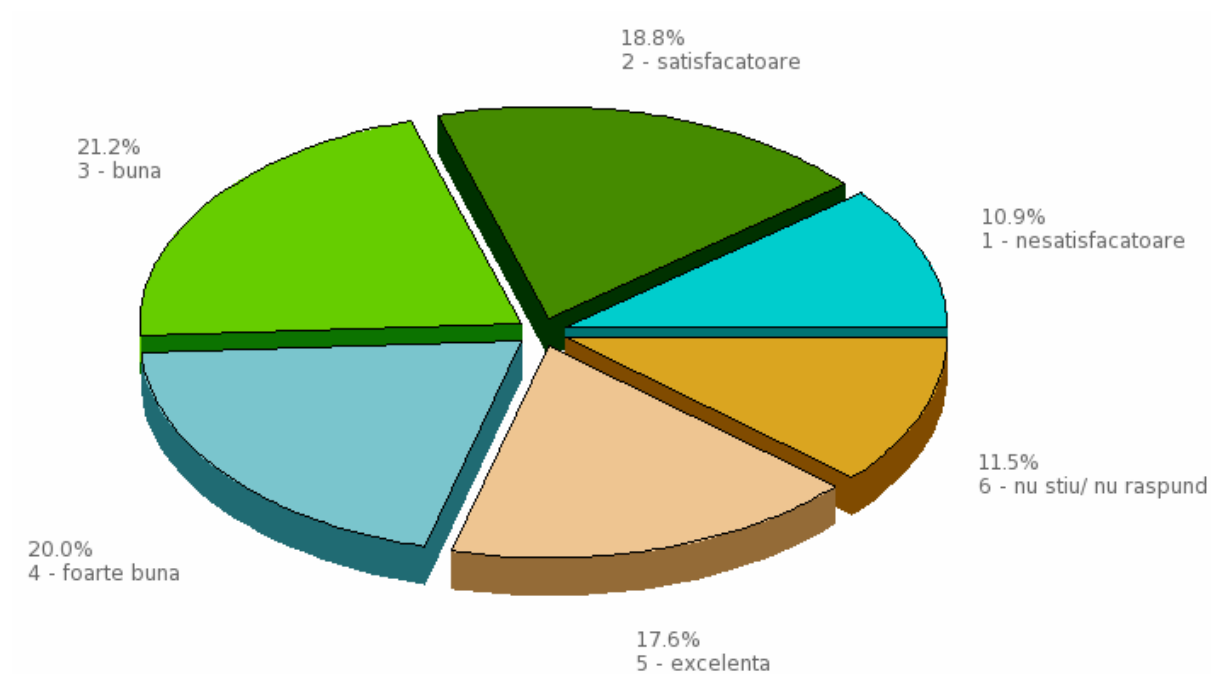
c. Colaborarea cu firme straine;



d. Initierea si consolidarea unor parteneriate;

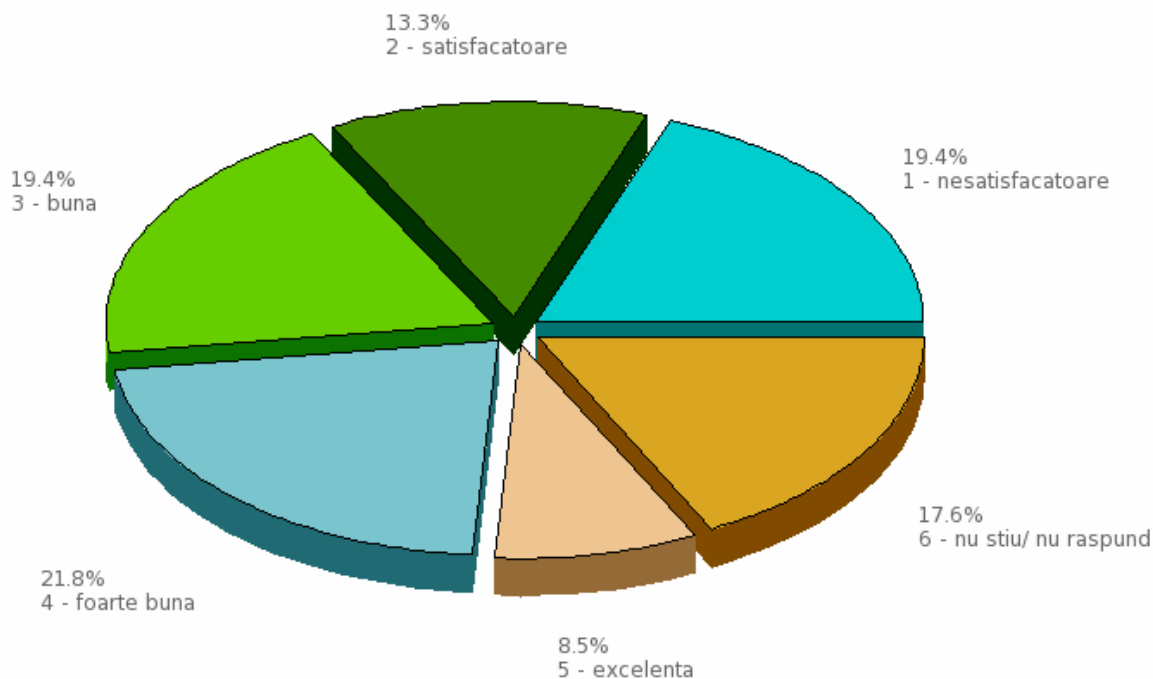


e. Vizibilitate externa.

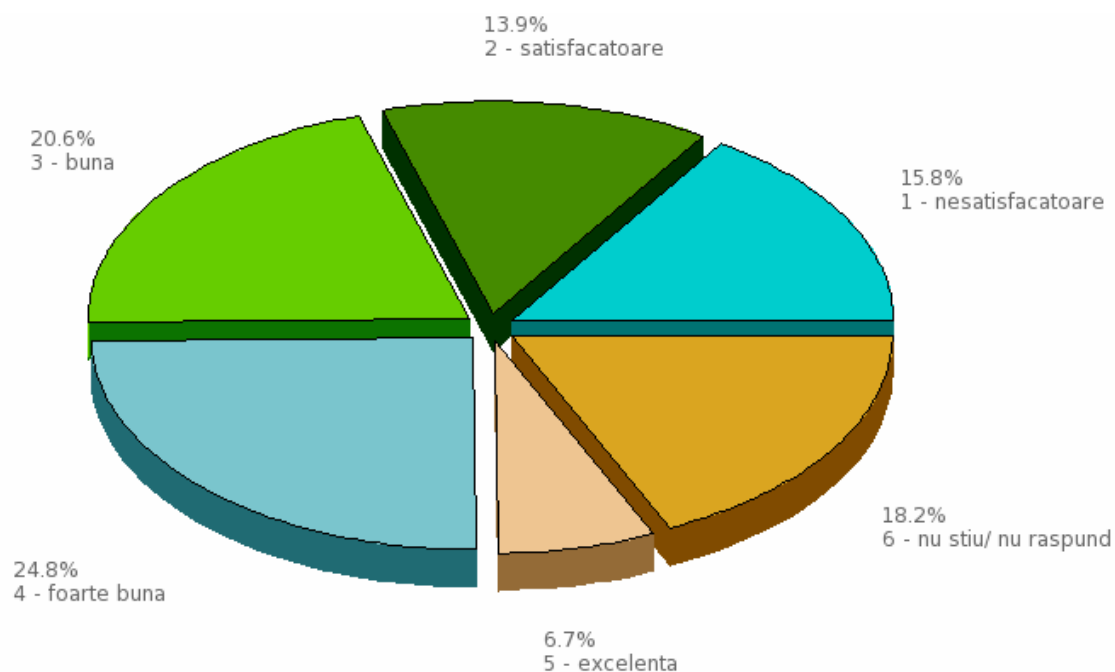


6. Cum apreciati importanta interactiunii cu firmele (romanesti si straine) interesate de CD in domeniul nanotehnologiilor (dupa experienta Dv., in intervalul 2005-2011, importanta notata de la 1 la 5)

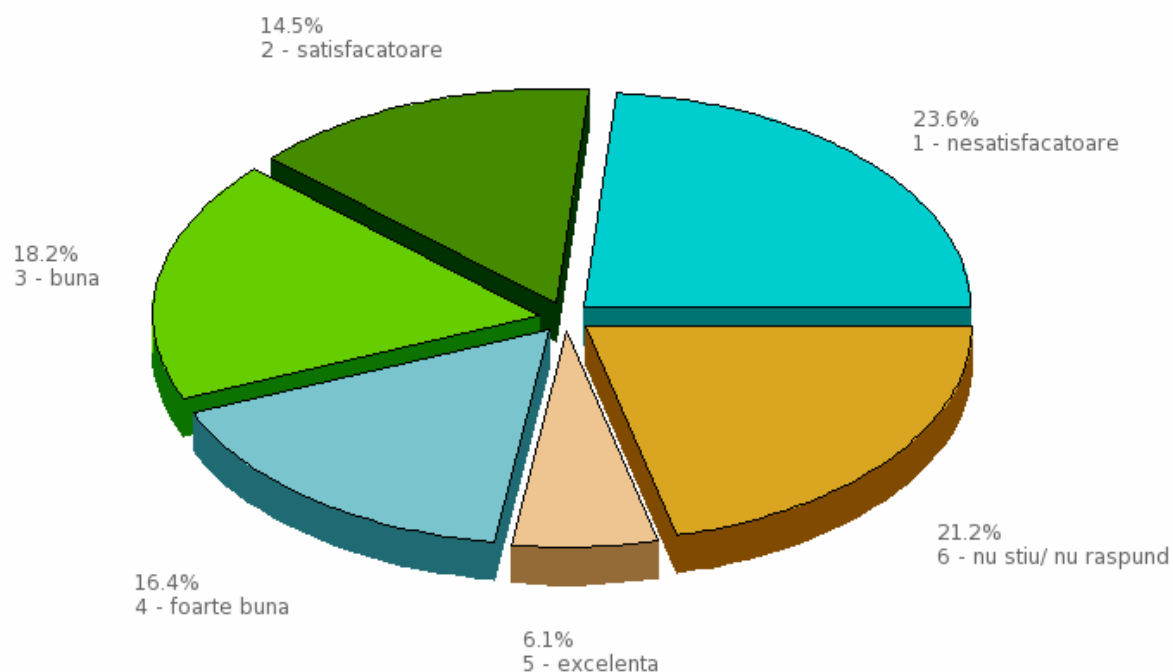
a. In orientarea spre o tematica de actualitate pe plan mondial;



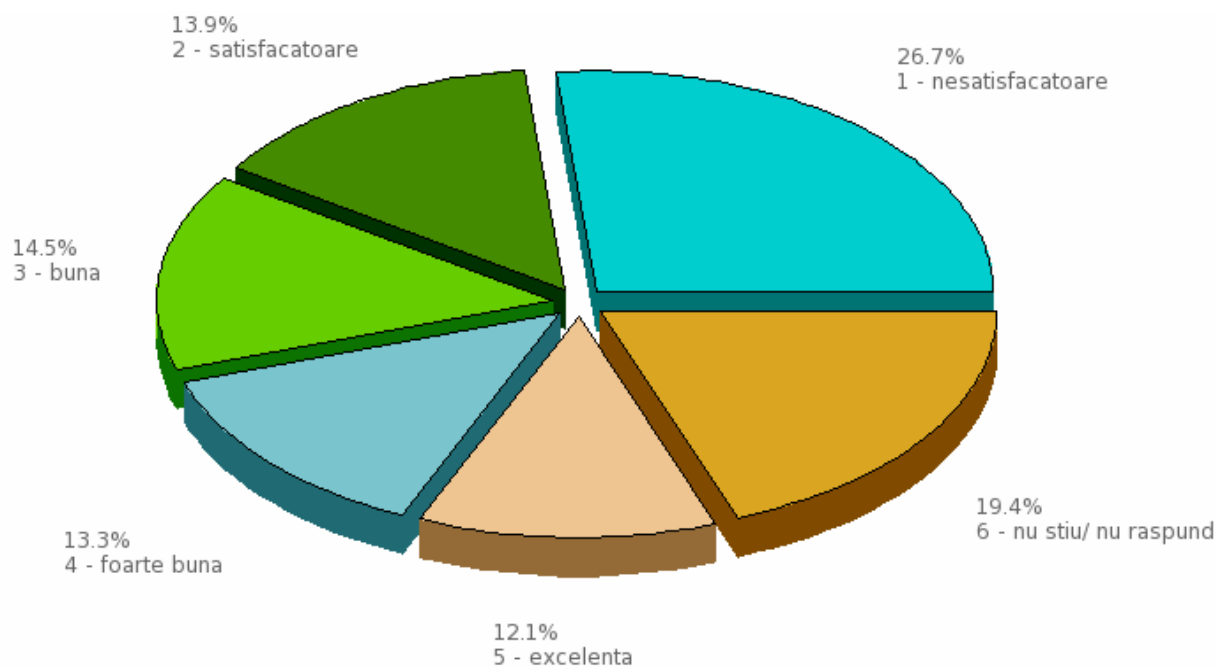
b. In focalizarea activitatii grupului Dv. pe anumite domenii de aplicatie;



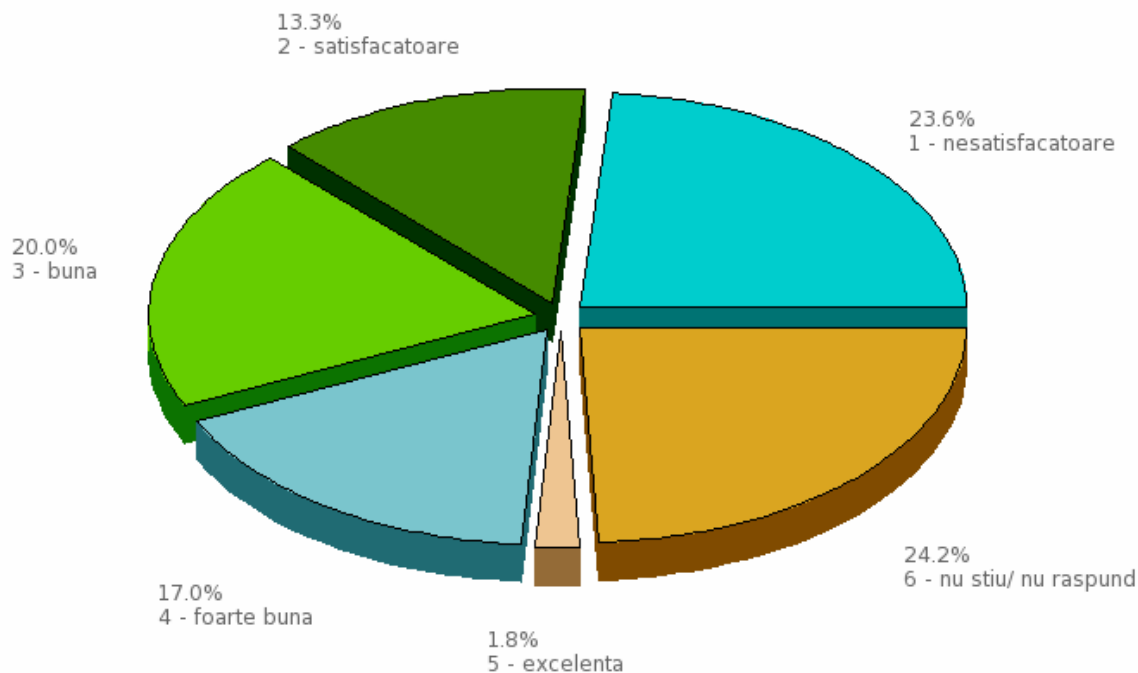
c. In brevetarea unor rezultate ale cercetarii;



d. In finalizarea unei cercetari printr-un produs sau o tehnologie;



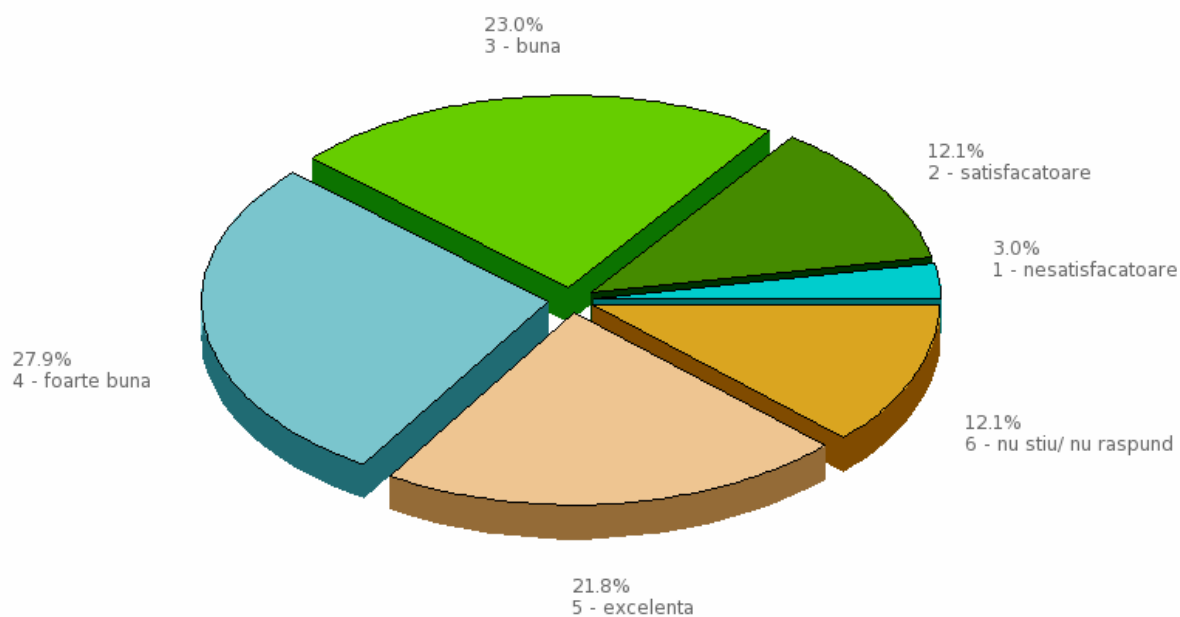
e. In reorientarea strategiei grupului sau organizatiei din care faceti parte.



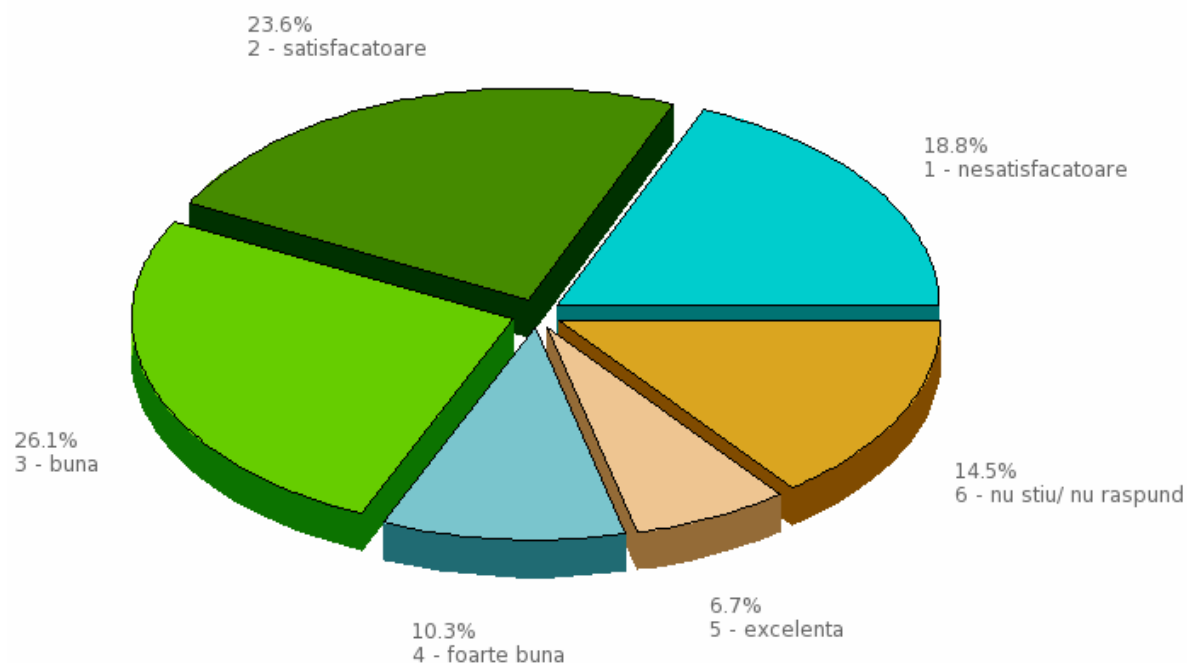
B. Sinteza puncte tari si puncte slabe: nanotehnologiile in Romania

7. Cum apreciati **punctele tari** din cercetarea pe plan national 2005-2011 in domeniul **nanotehnologiilor** (pe o scara de la 1 la 5, unde 1 cel mai putin important, 5 cel mai important; nu pot exista doua notari identice)

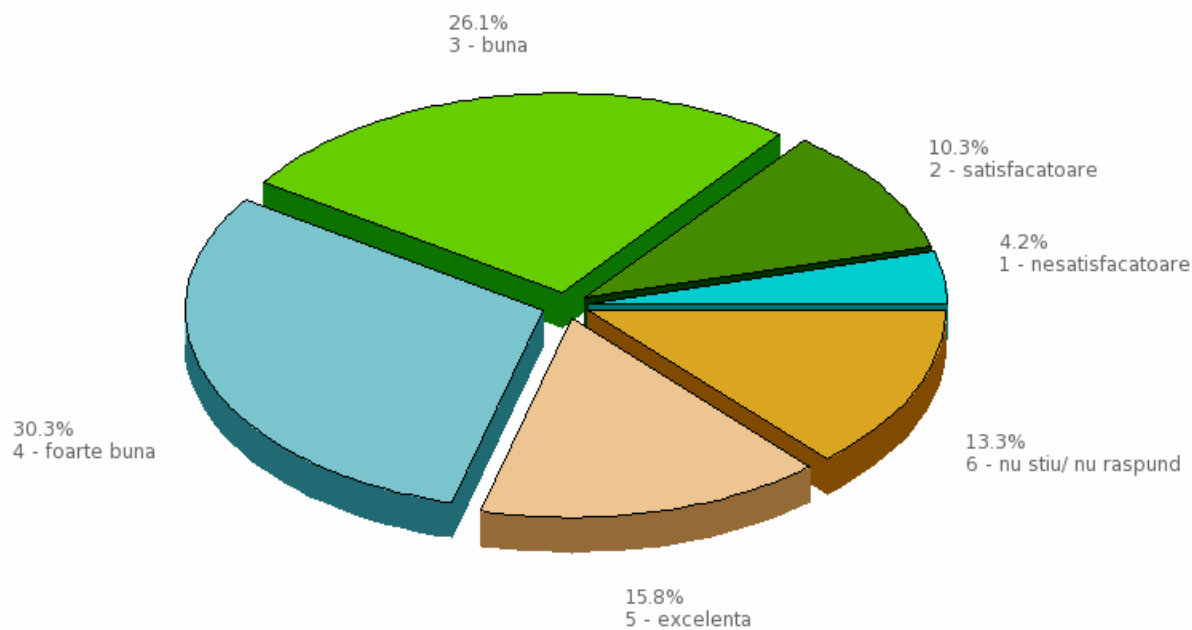
a. Cercetatorii cu publicatii in reviste internationale de specialitate, in domeniile stiinta materialelor, fizica, chimie, biologie, medicina, inginerie.



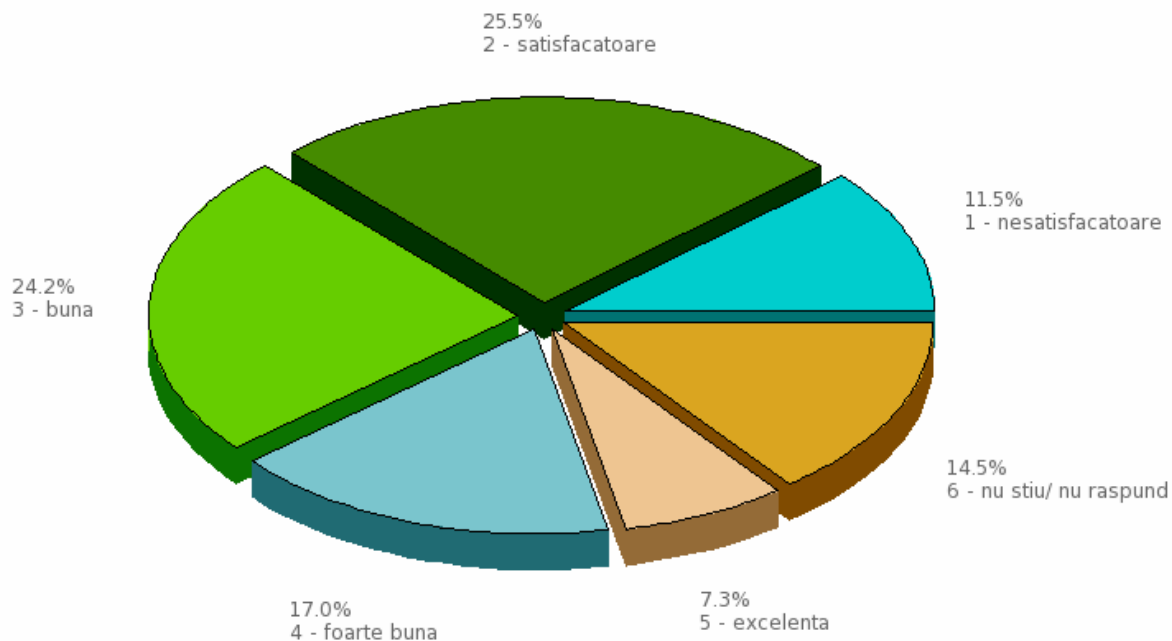
b. Existenta unor scoli romanesti recunoscute international, cu traditie indelungata in domeniile mentionate.



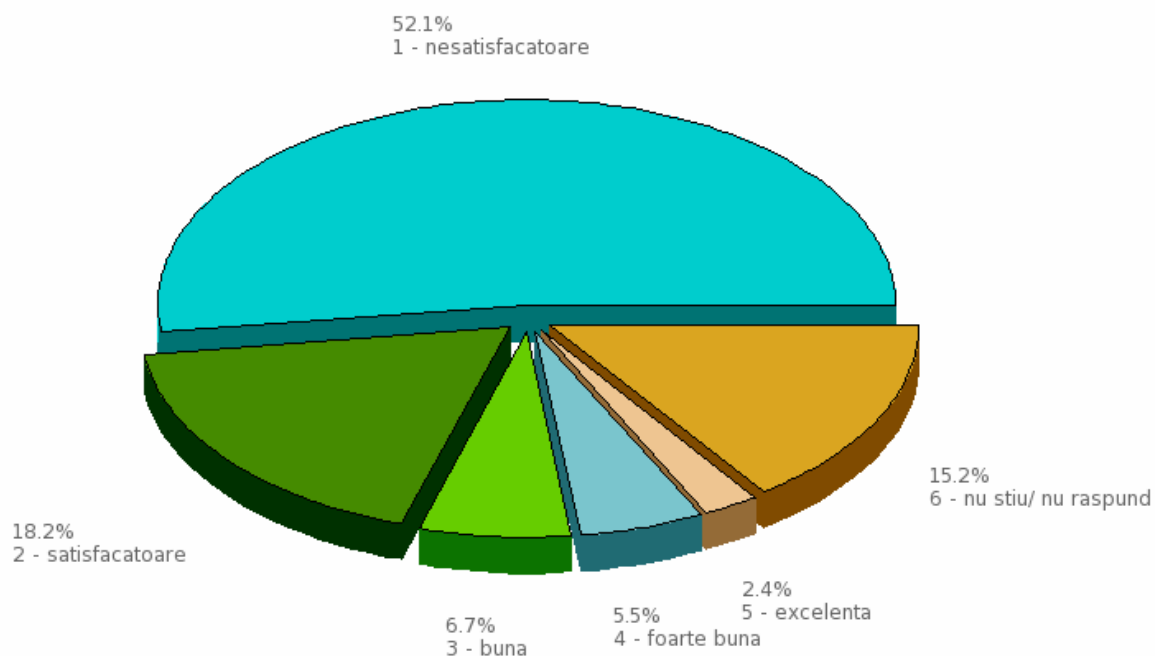
c. Dotari cu echipamente specifice performante, de ultima generatie.



d. Colaborarile internationale: relatiile institutionale cu actori principali in domeniul nanostiintelor si nanotehnologiilor; colaborarile efective in proiecte europene, colaborari cu firme importante din strainatate.

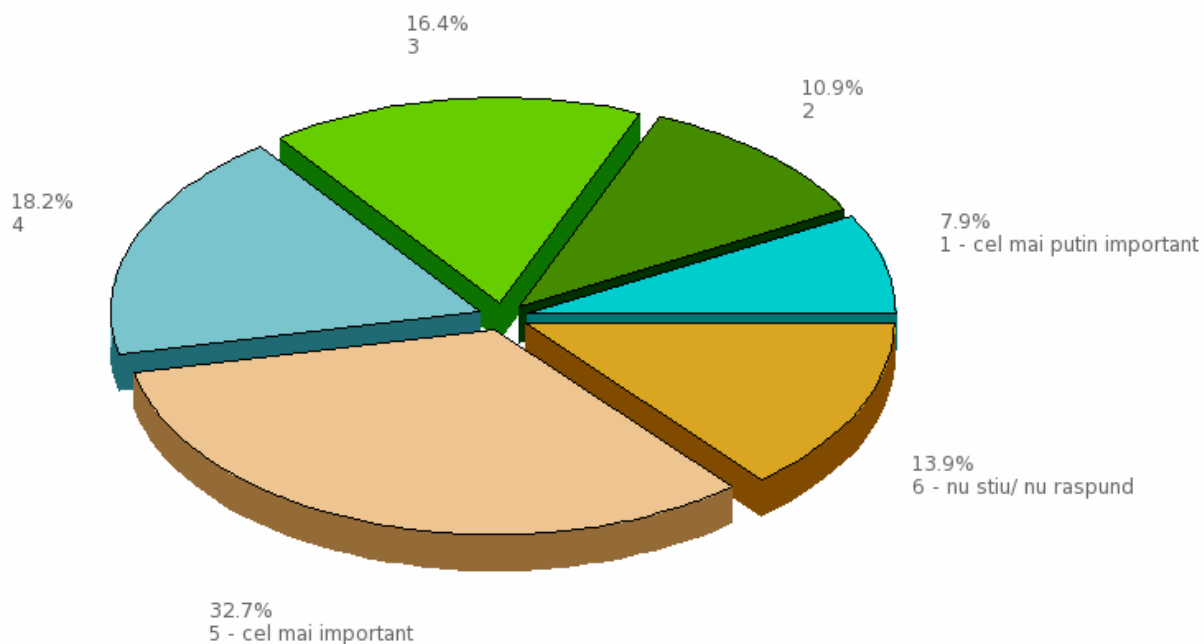


e. Prezenta in Romania a unor firme straine interesate de colaborare in domeniu

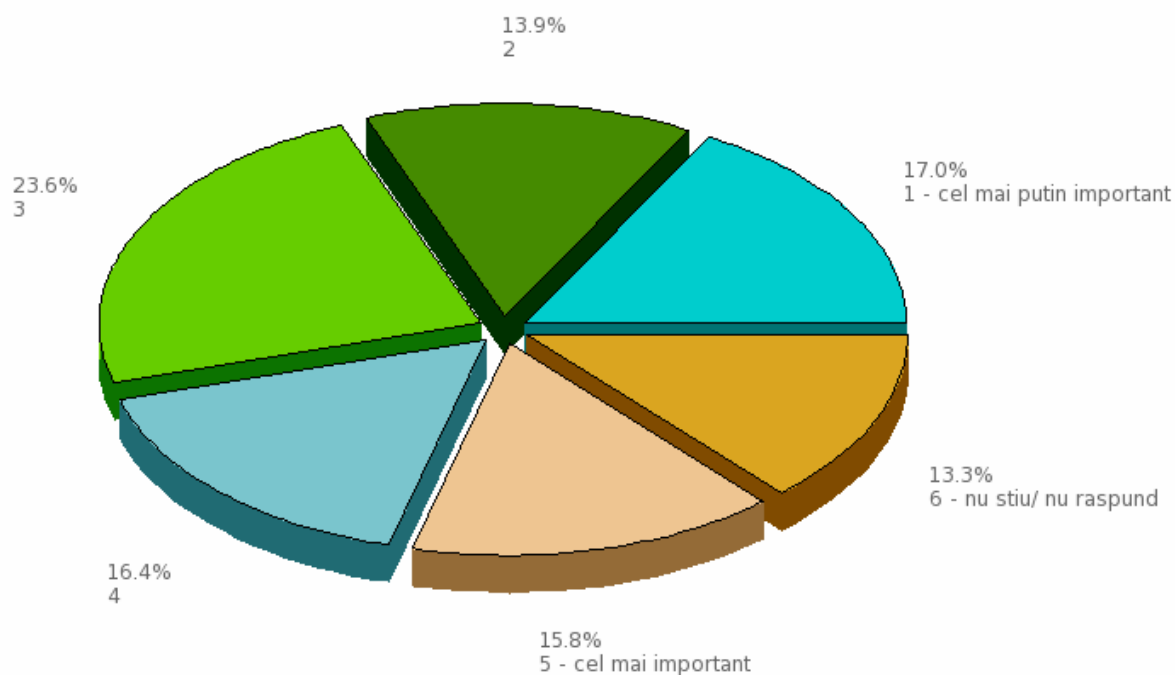


8. Cum apreciati punctele slabe din cercetarea pe plan national 2005-2011 in domeniul **nanotehnologiilor** (pe o scara de la 1 la 5, unde 1 - cel mai putin important , 5 - cel mai important; nu pot exista doua notari identice)

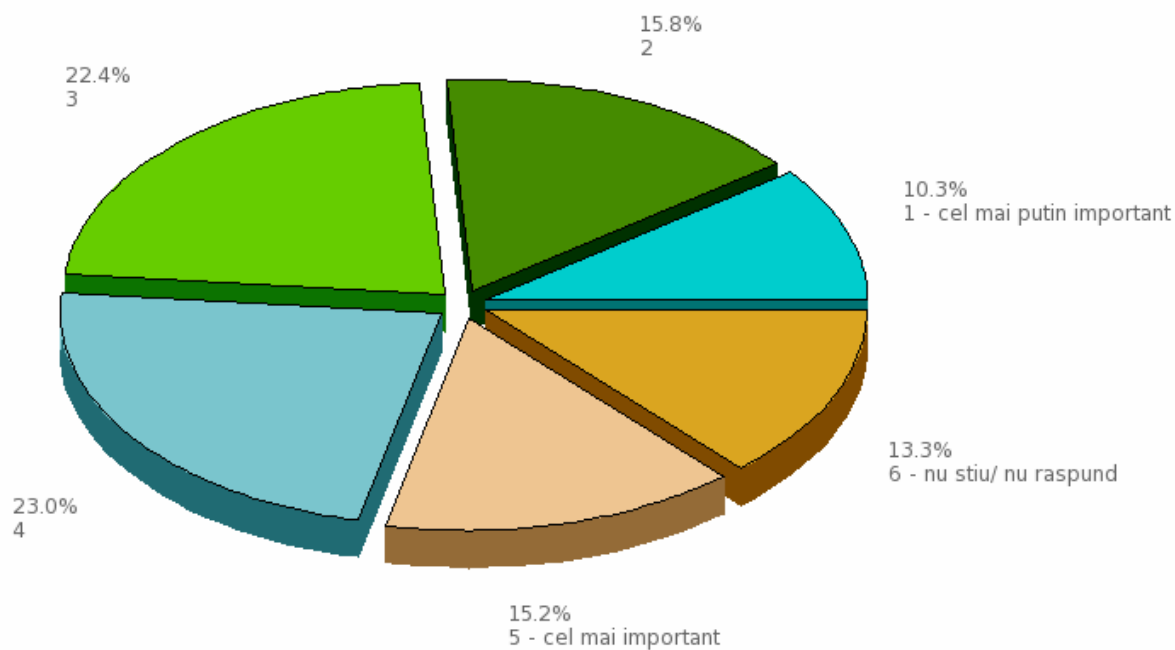
a. Fragmentarea finantarii (contracte cu tematici diferite, necorelate; lipsa unei continuitati a cercetarii la nivelul aceluiasi colectiv; lipsa unor parteneriate de durata)



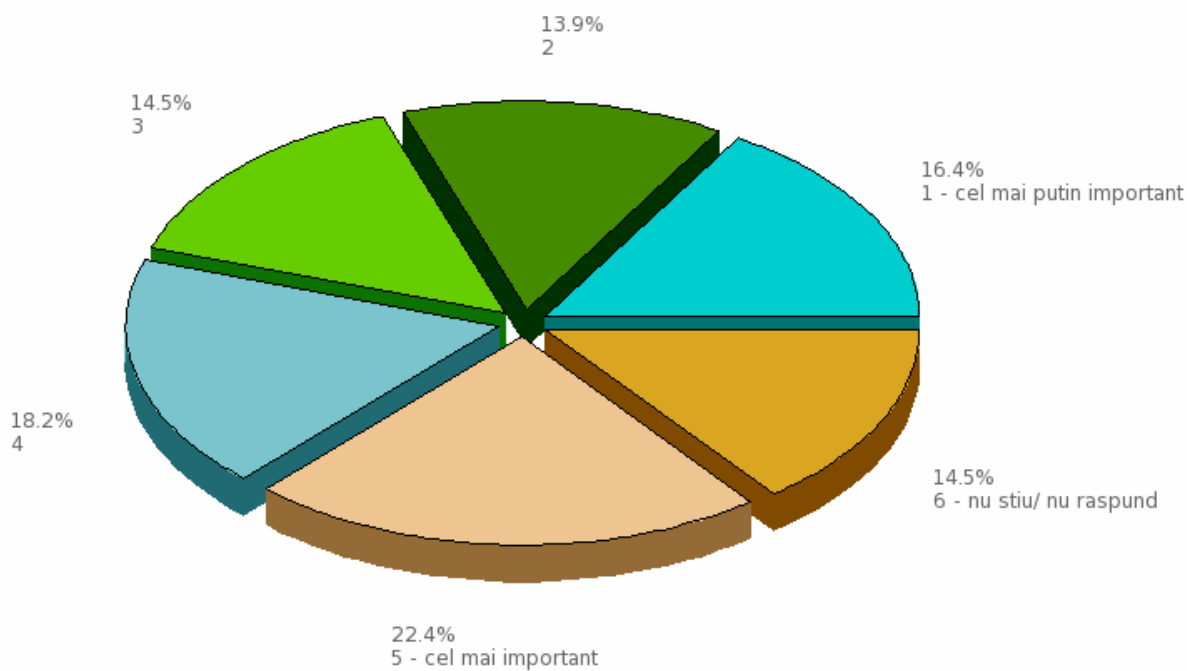
b. Absenta unei politici nationale in privinta dotarii cu echipamente performante, a incurajarii dotarilor complementare, a utilizarii dotarilor existente in cadrul unor retele de facilitati etc.



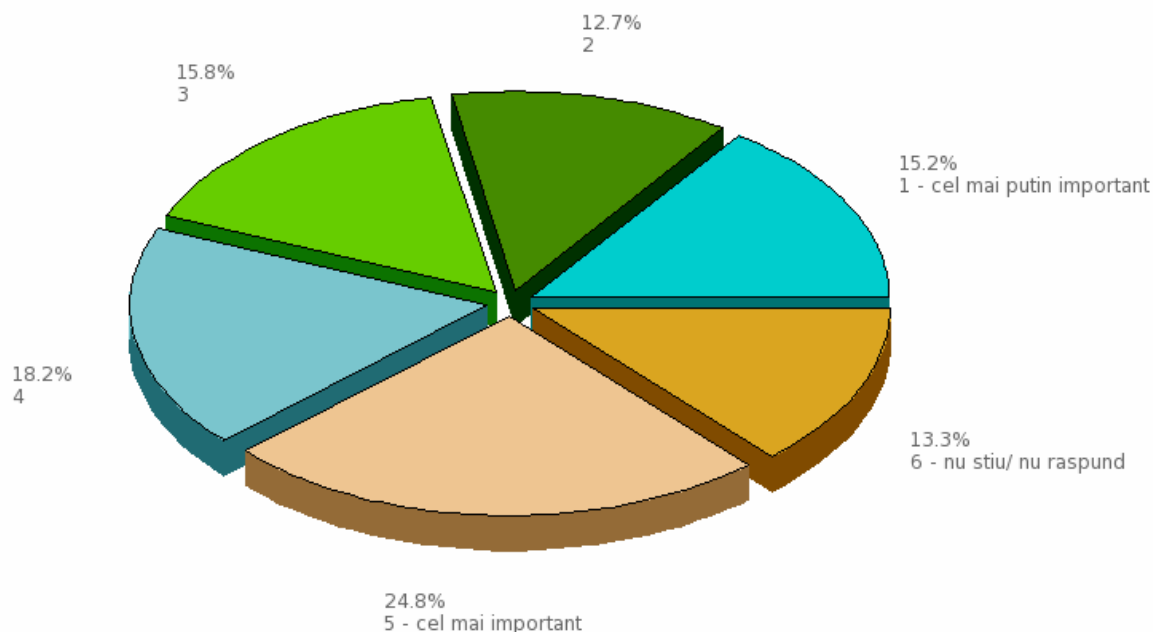
c. Calitatea si marimea resurselor umane. Nevoie de o masa critica si de colective multidisciplinare. Instabilitatea resursei umane (cercetatori si personal tehnic)



d. Interacțiunea redusă a industriei din România cu activitățile de cercetare, educație și inovare din instituțiile publice



e. Inexistenta unei strategii nationale in domeniul nanotehnologiilor, care sa prevada printre altele:

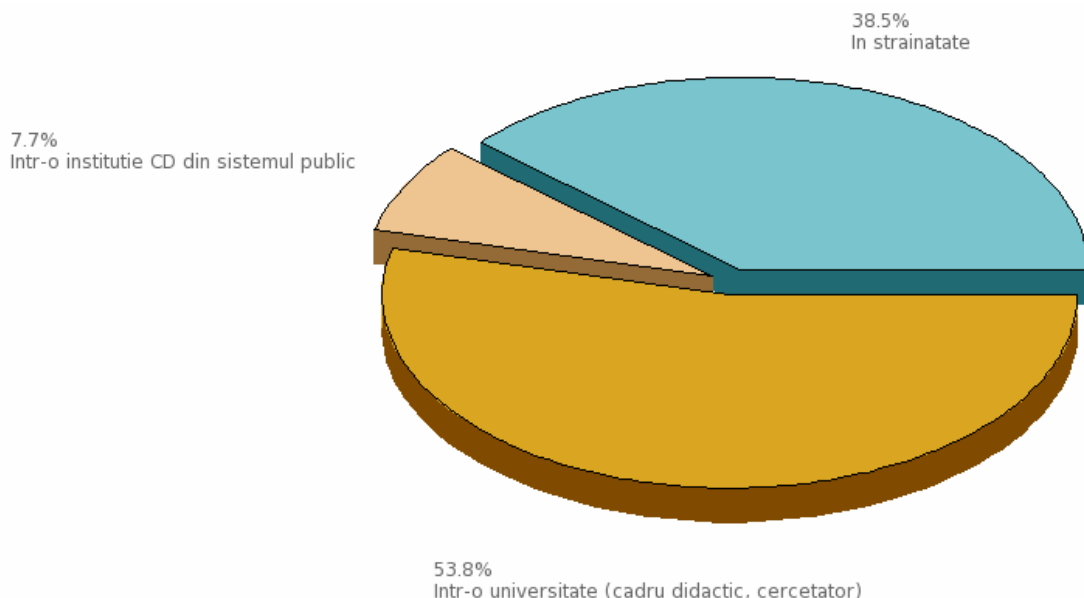


- Focalizarea pe anumite tematici si anumite domenii de aplicatie;
- Asigurarea unei politici coerente de investitii si de utilizare a bazei existente la nivel national
- O politica de resurse umane, care sa asigure formarea unor cercetatori pentru domenii interdisciplinare, instruire pentru firme etc.
- Parteneriate de durata cu industria (in cadrul unor clustere, poli de excelenta etc.).

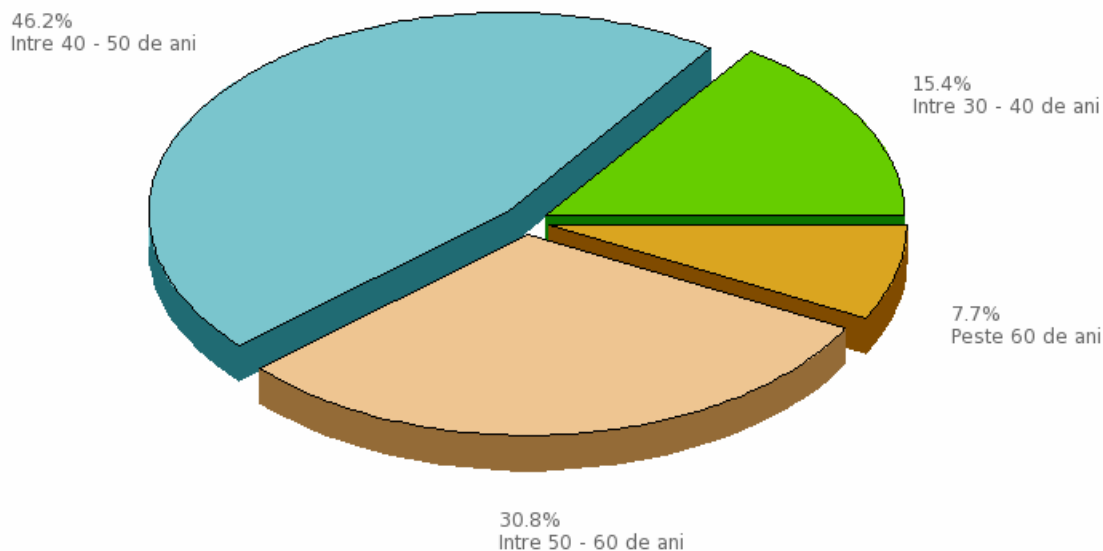
Chestionar NANOPROSPECT
privind sistemul CDI in nanotehnologii, la scara nationala

13 respondenti cercetatori romani din diaspora

Distributia pe tipuri de institutii unde au activat/activeaza preponderent respondentii in 2005-2010



Distributia pe varsta a respondentilor

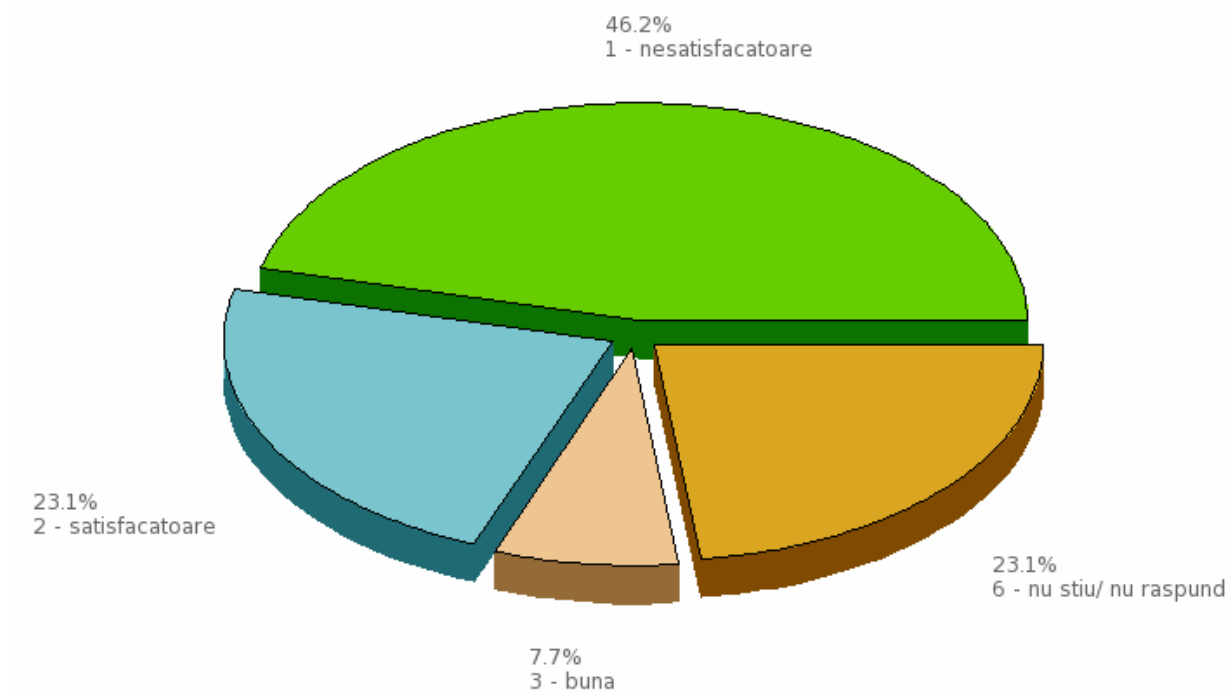


A. Situatiia nanotehnologiilor in cadrul sistemului national CDI pentru perioada 2005 - 2011. Aprecierile pot contribui la determinarea "punctelor tari" si a "punctelor slabe" ale sistemului cu referire la nanotehnologii.

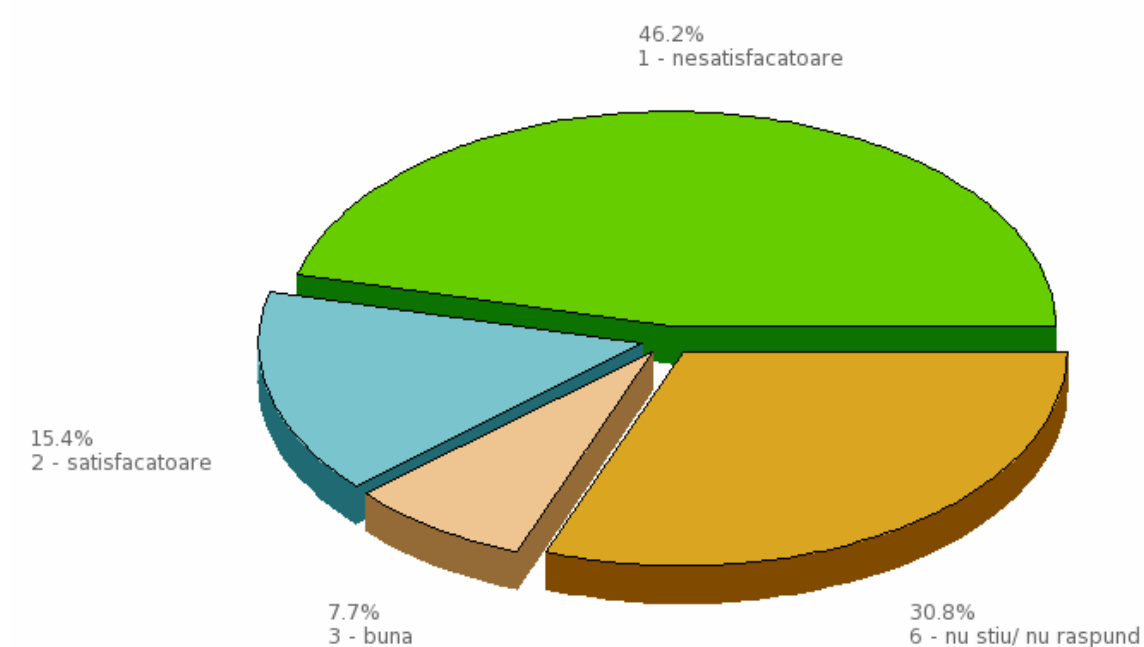
Cum apreciati situatiia pentru fiecare subpunct, pe o scara de la 1 la 5? Semnificatia generala cifrelor este urmatoarea: 1 - nesatisfacatoare; 2 - satisfacatoare; 3 - buna; 4 - foarte buna; 5 - excelenta. Bifati ce corespunde. *Nu sunteti obligati sa faceti aprecieri la toate subpunctele: nebifarea unui calificativ la un subpunct oarecare echivaleaza cu "nu stiu"/"nu raspund" in sondajele obisnuite. Cu alte cuvinte, aceasta abtinere poate insemna nu numai lipsa unor informatii adecvate, ci si faptul ca respondentul nu considera criteriul respectiv ca fiind relevant.*

1. Situatia generala a domeniului

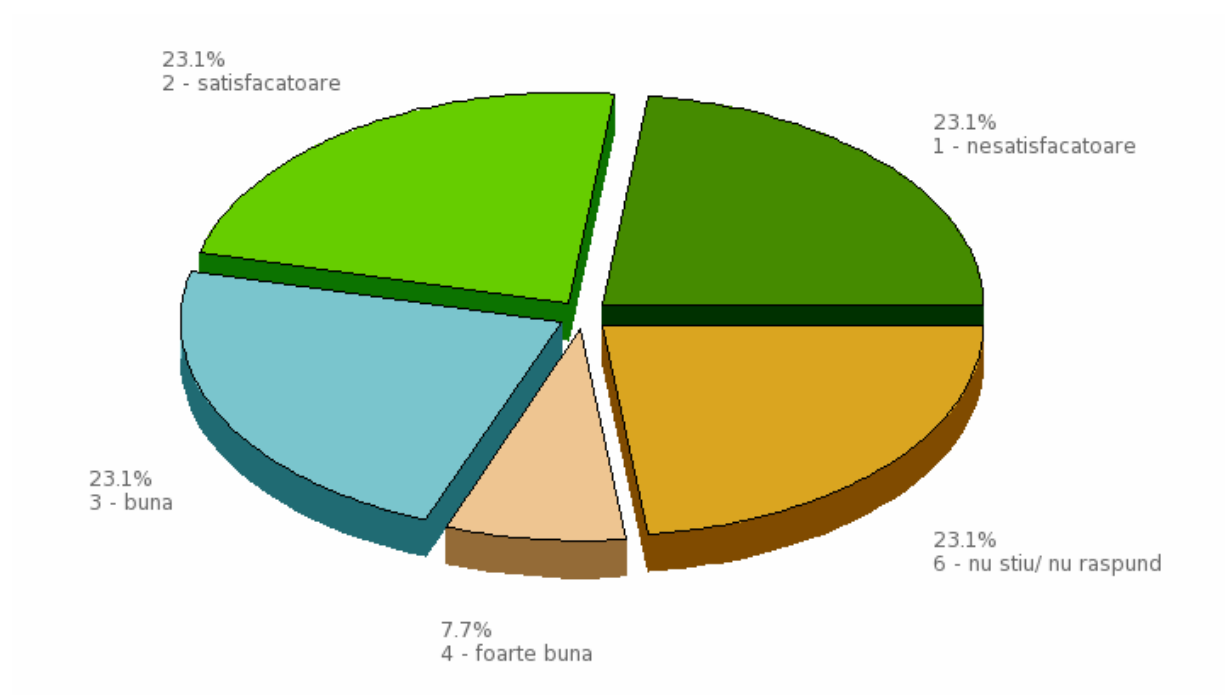
a. Existenta si implementarea unei strategii in domeniu;



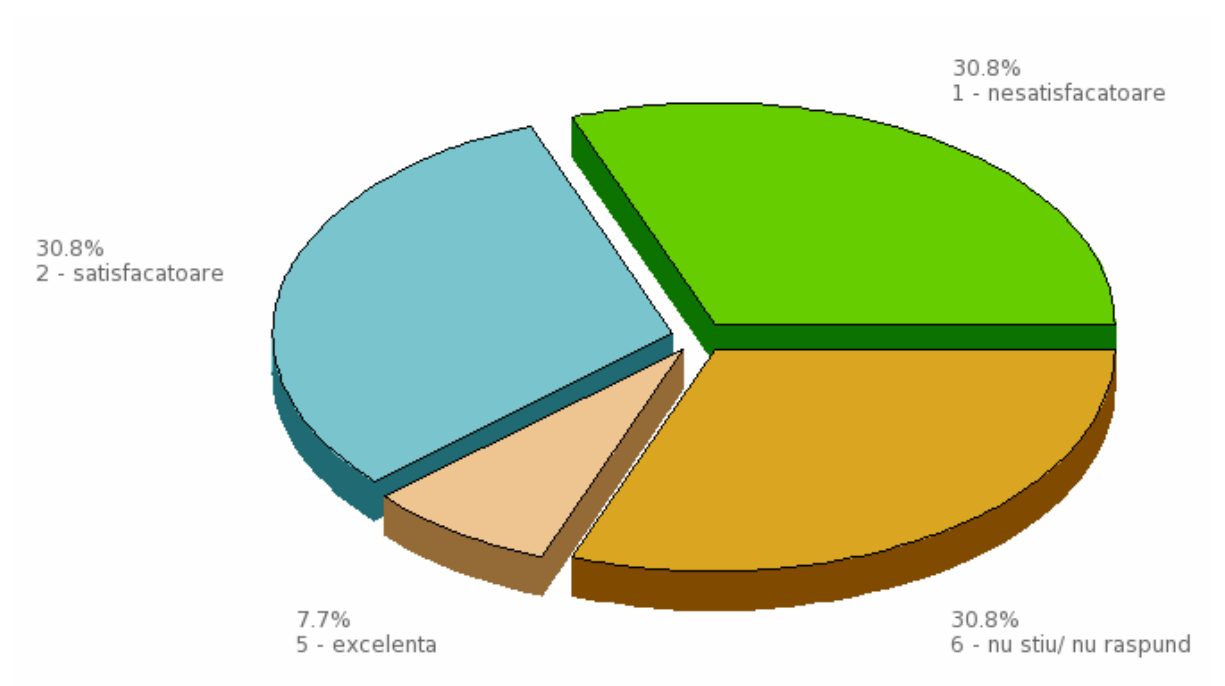
b. Nivelul de finantare a domeniului;



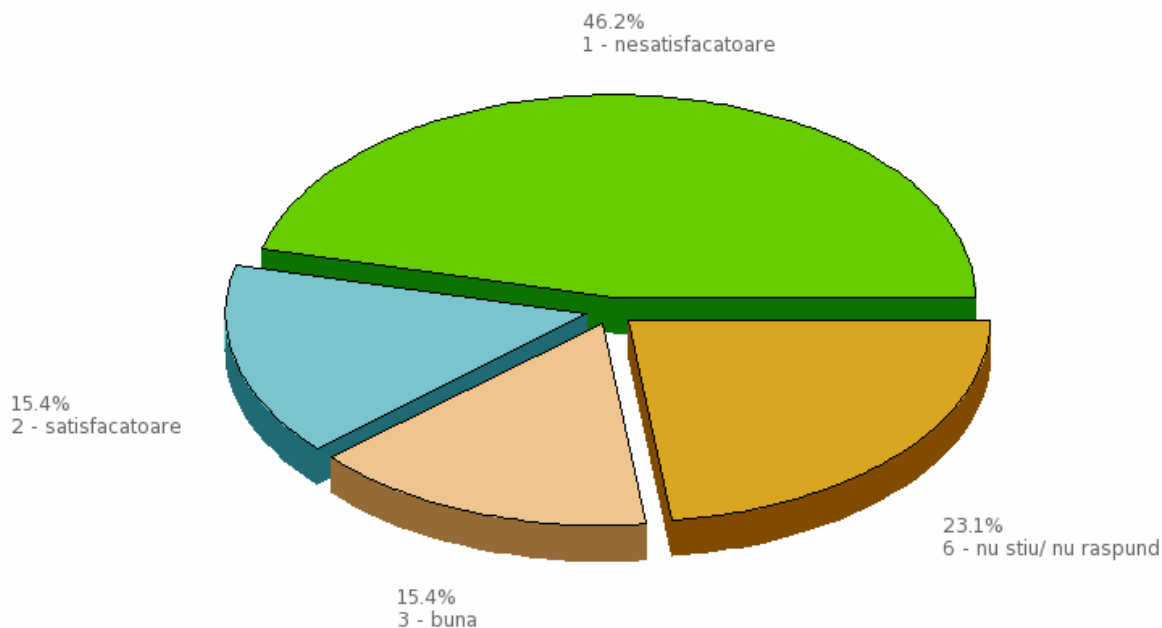
c. Calitatea infrastructurii;



d. Existenta unor aplicatii demonstrate in diverse domenii;

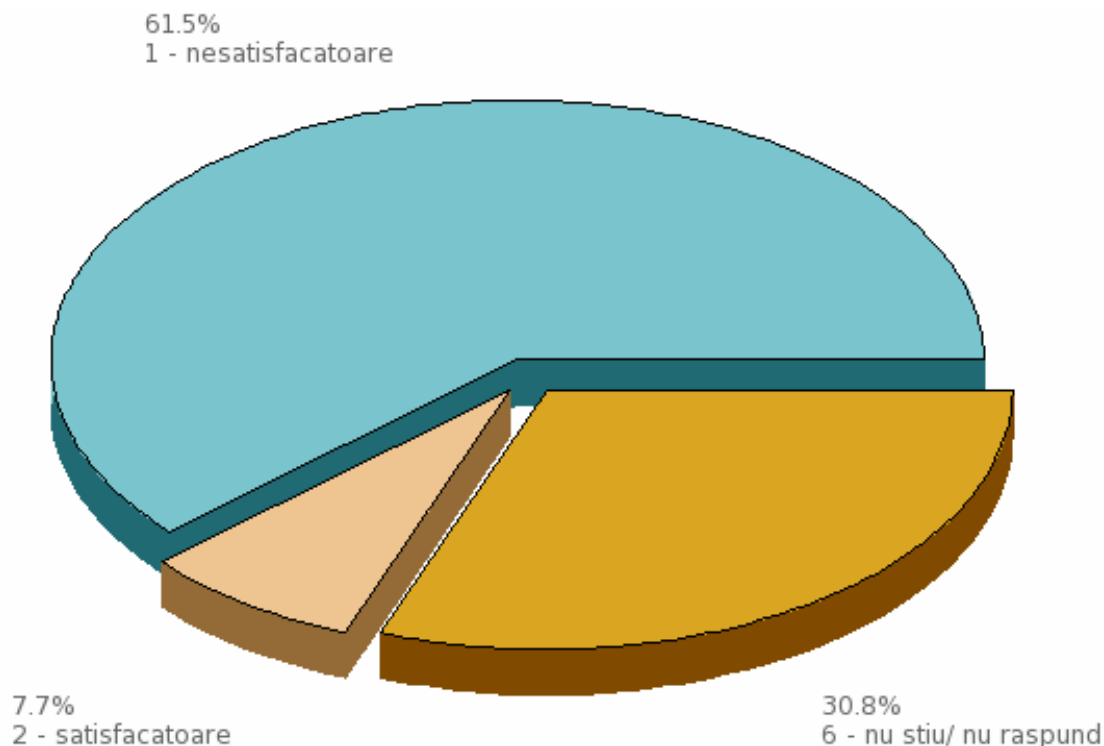


e. Existenta unei concentrari eficiente a resurselor umane si materiale pe anumite directii tematice de cercetare.

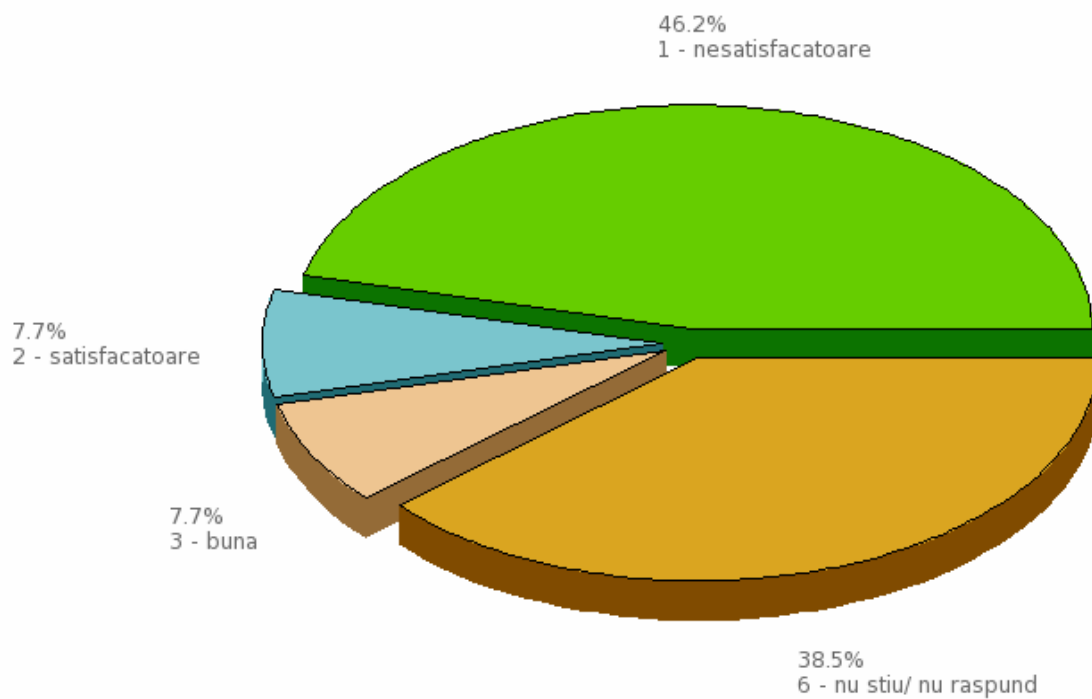


2. Ce s-a facut in tara pentru dezvoltarea resurselor umane in domeniul nanotehnologiilor (din experienta dumneavoastra personala si din contacte directe - in ce masura au fost si sunt in prezent relevante activitatile de mai jos, pe o scara de la 1 la 5)

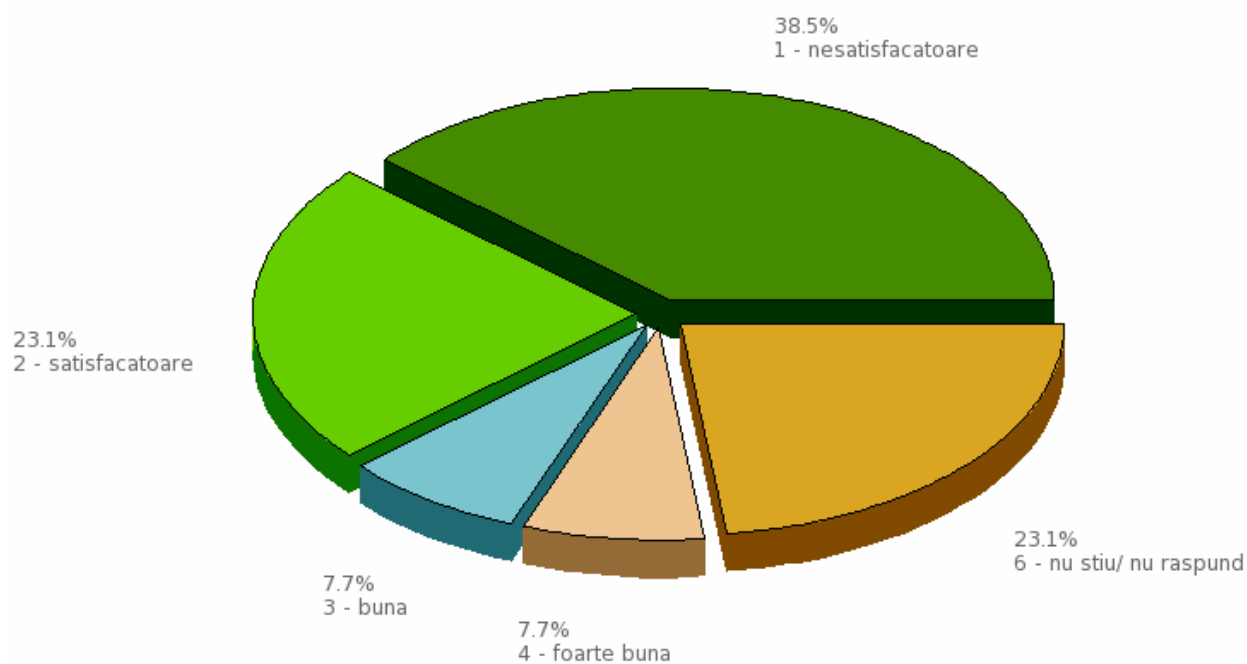
a. Formarea multidisciplinara prin programa de invatamant din universitati (discipline sau cursuri de master specializate);



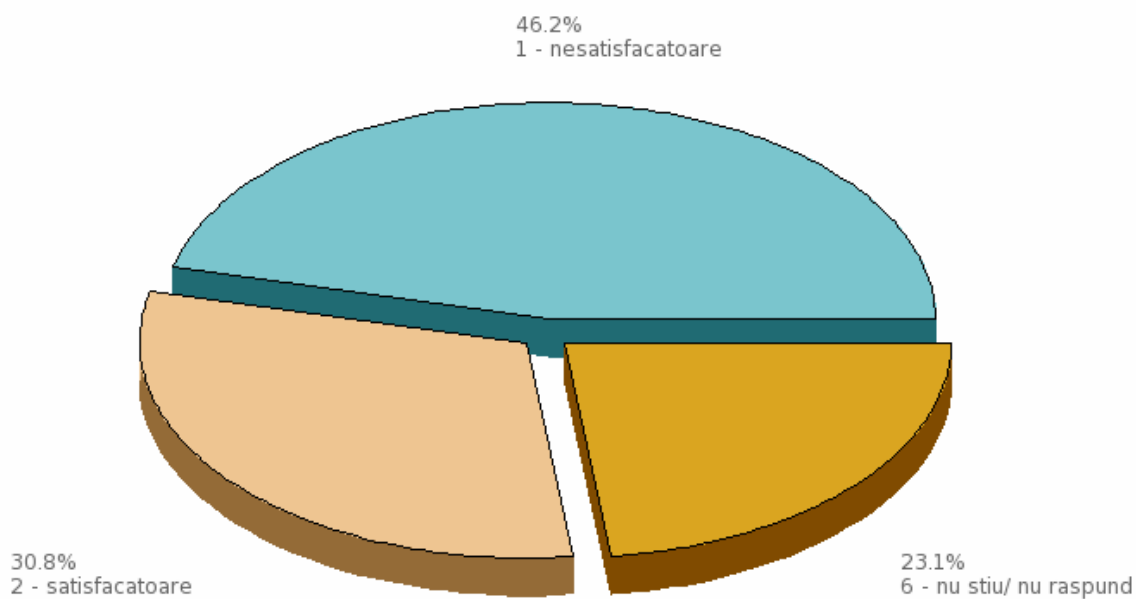
b. Formarea multidisciplinara prin scoli de doctorat si programe postdoctorale



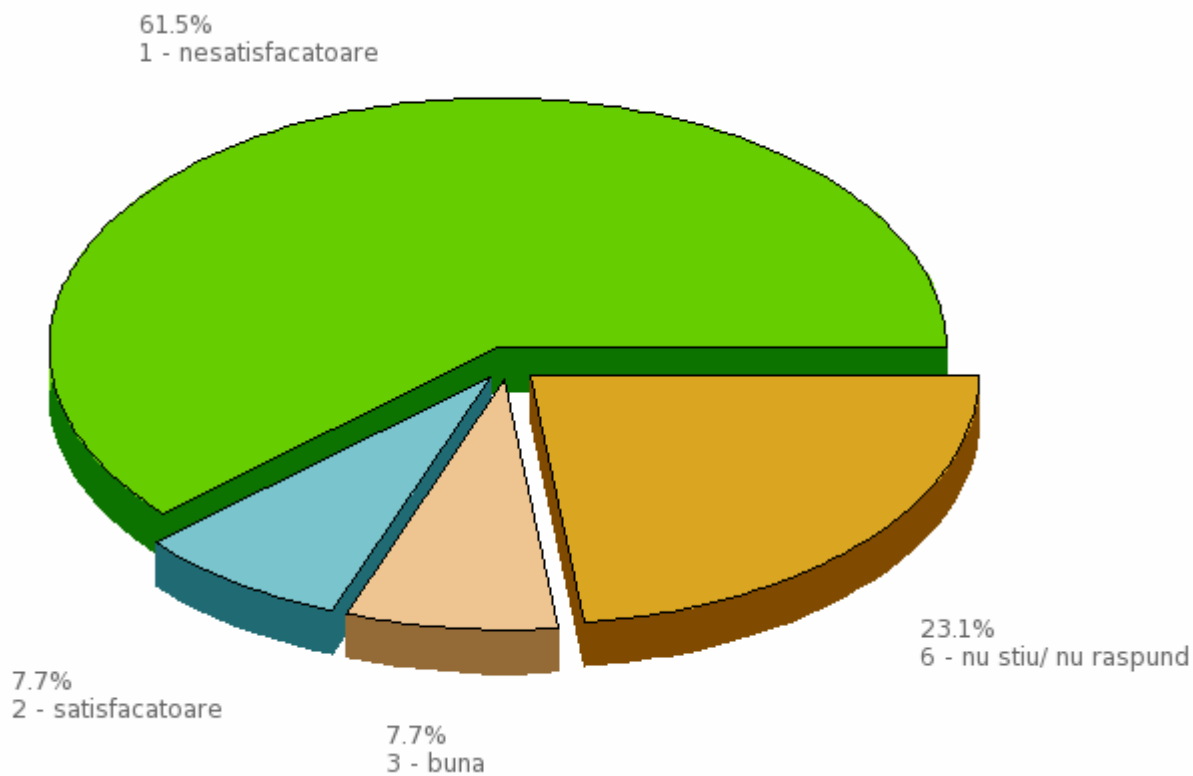
c. Formarea interdisciplinara prin cercetare (in echipe polidisciplinare etc.);



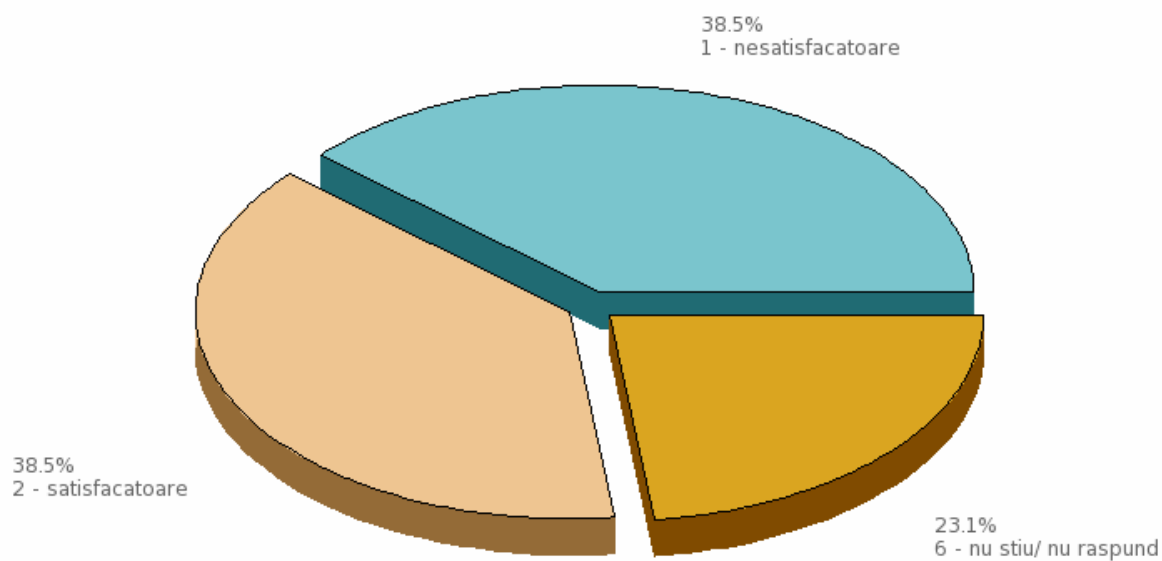
d. Sprijinirea cercetatorilor tineri (finantare, conditii de lucru, promovare);



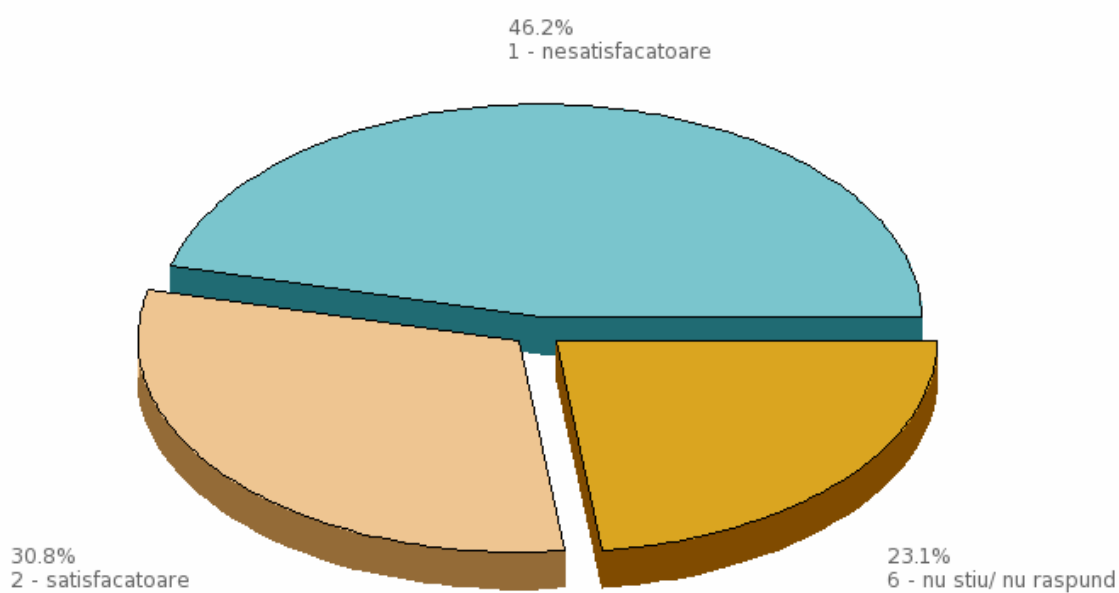
e. Sprijinirea specialistilor reveniti dupa studii/activitate de durata in strainatate (finantare, conditii de lucru, promovare);



f. Recunosterea performantei si a calitatilor reale pentru cercetare:

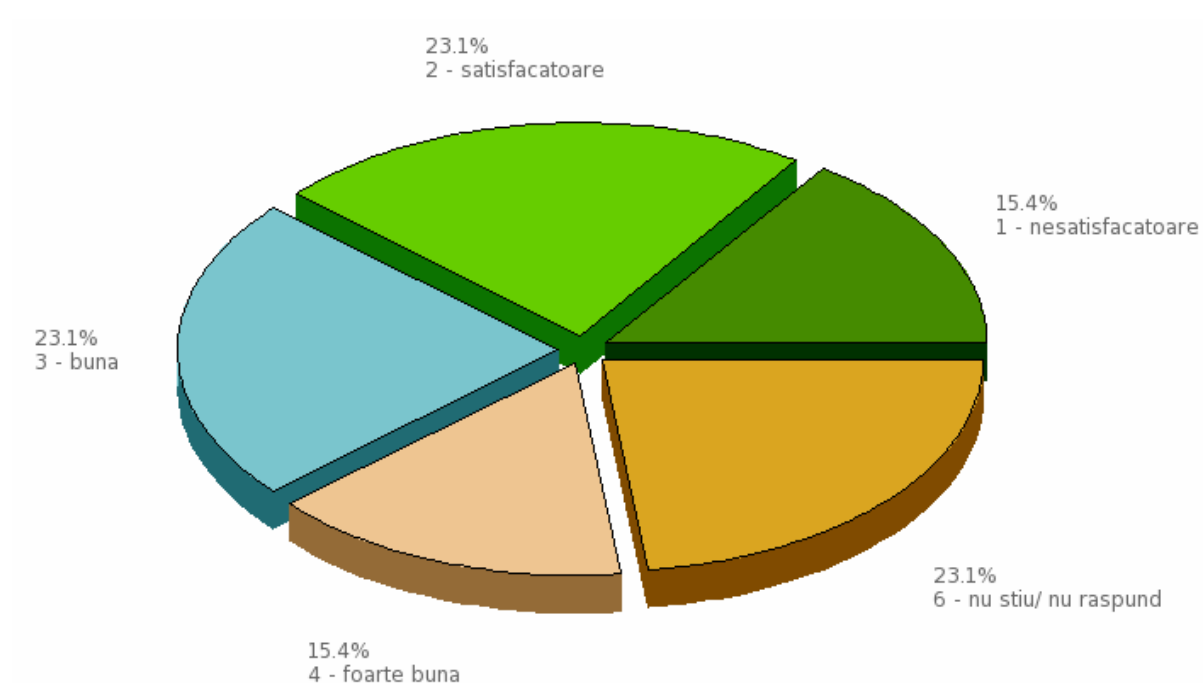


g. Aprecierea spiritului inovativ si a calitatilor antreprenoriale.

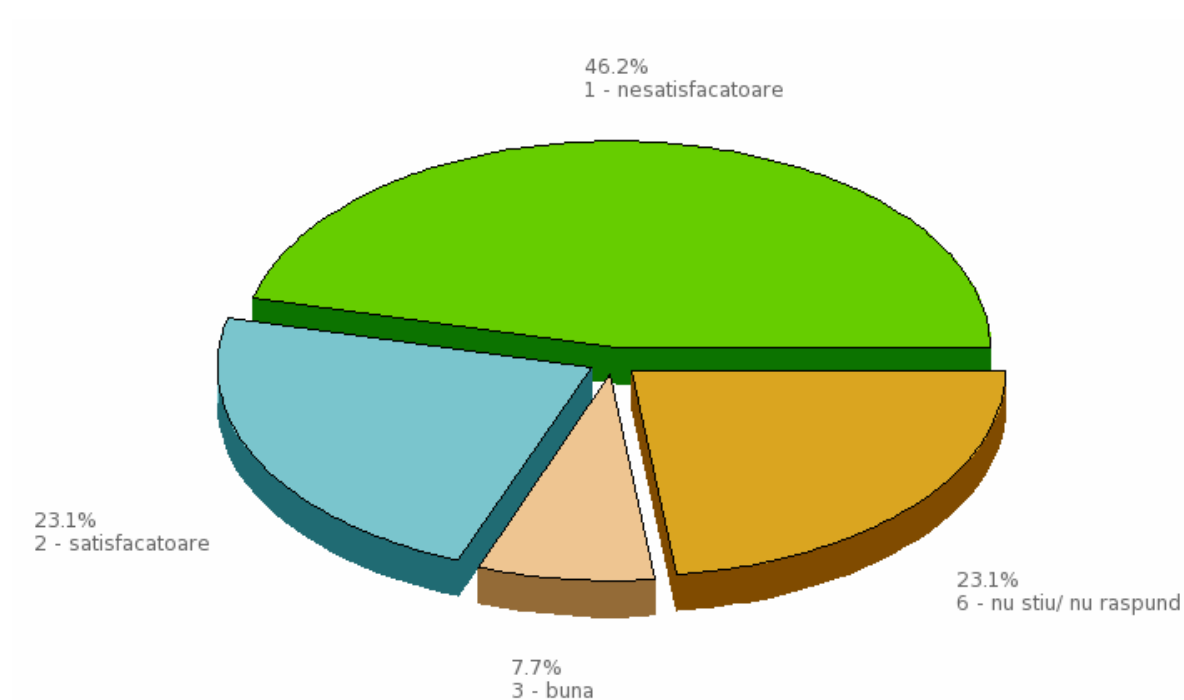


3. Care este situatia infrastructurii experimentale utilizate in domeniul nanotehnologiilor (din experienta dumneavoastra personala si din colaborari directe - cum apreciati situatia, pe o scara de la 1 la 5)

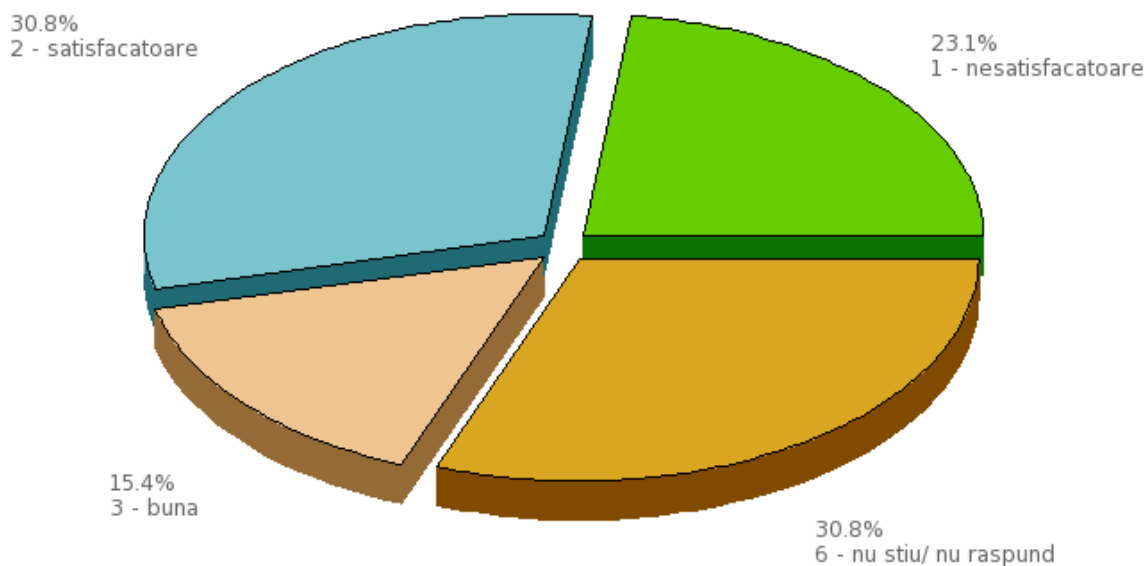
a. Cum apreciati calitatea dotarilor experimentale achizionate in perioada mentionata;



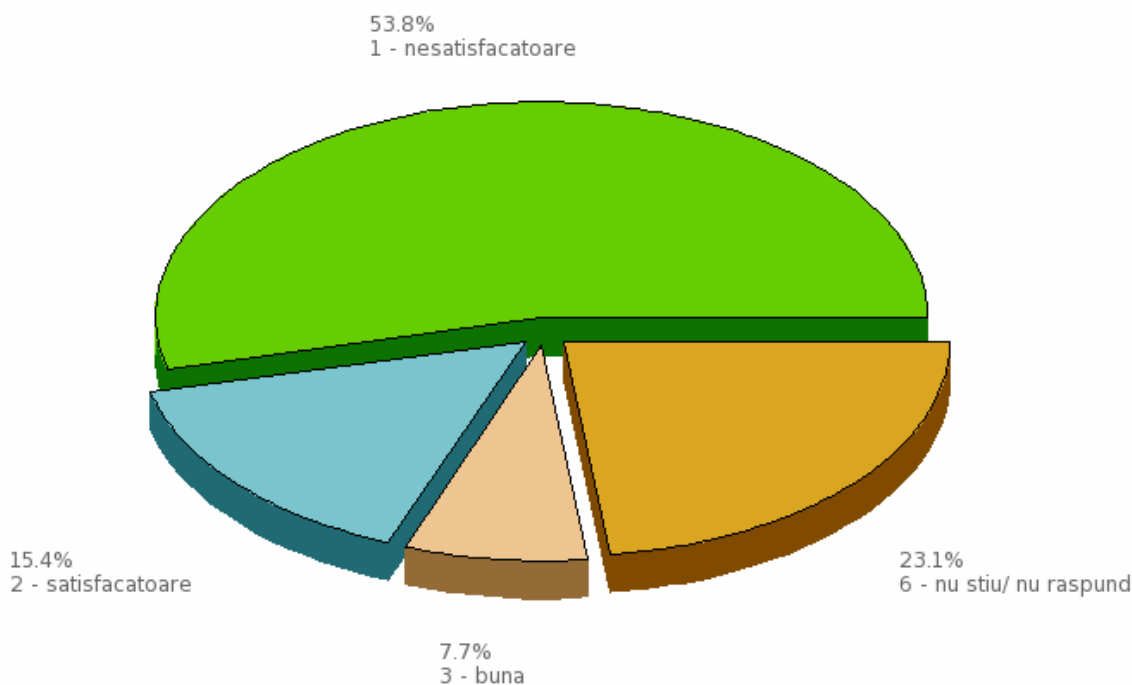
b. Cum apreciati coerenta si perspectiva activitatii de investitii;



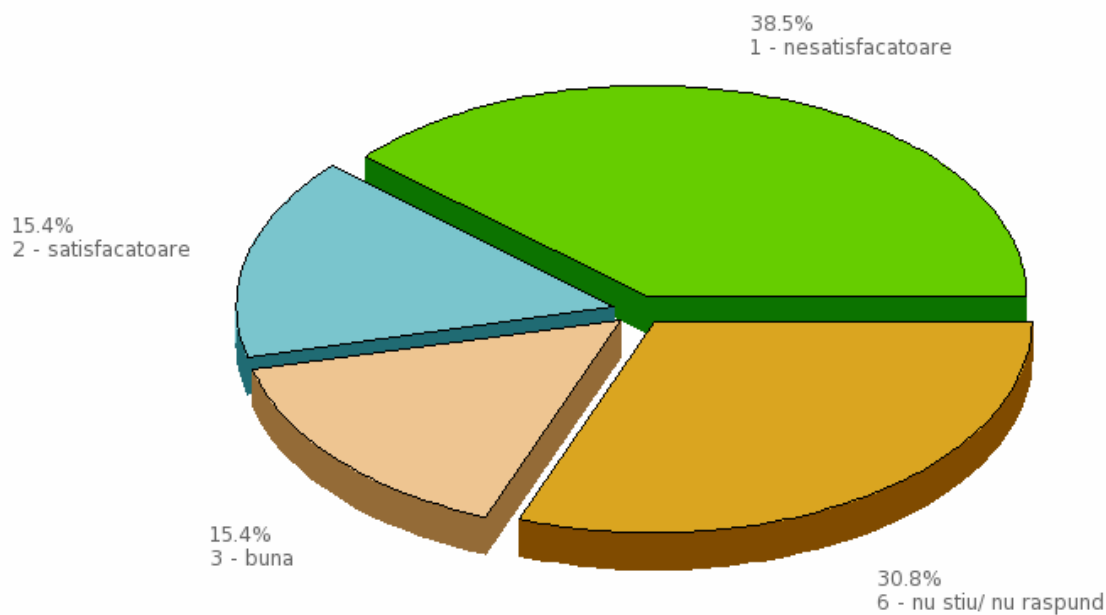
c. In ce masura instalarea si exploatarea dotarilor respective asigura performante tehnice maxime;



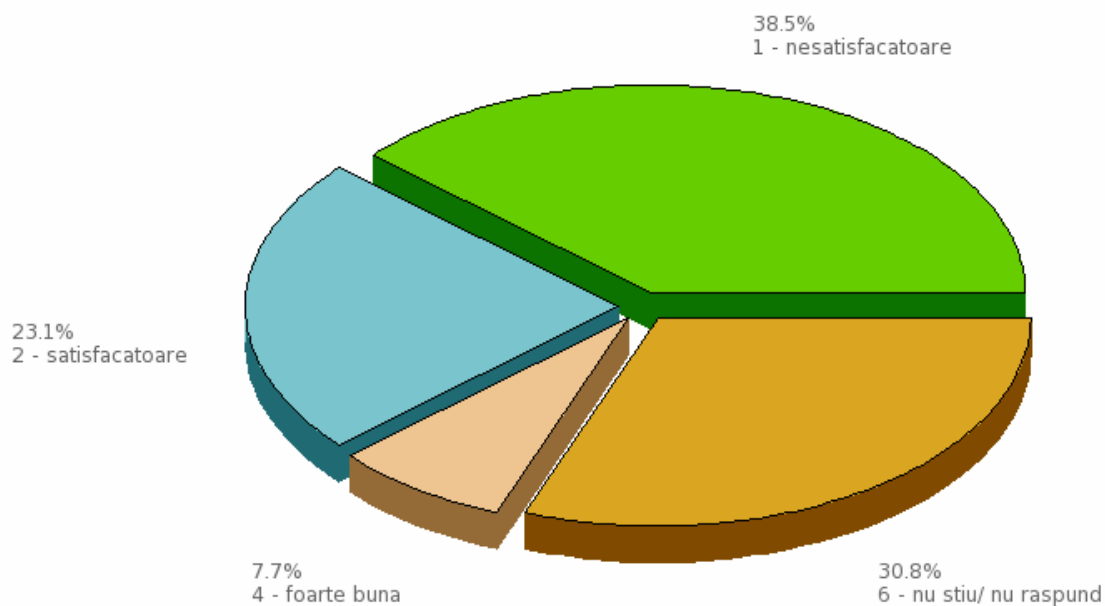
d. In ce masura dotarile respective sunt folosite la maximum in activitati de cercetare si dezvoltare, inclusiv prin accesul unor cercetatori din alte colective, alte discipline, alte organizatii etc.;



e. In ce masura echipamentele existente au o contributie semnificativa la procesul educativ;

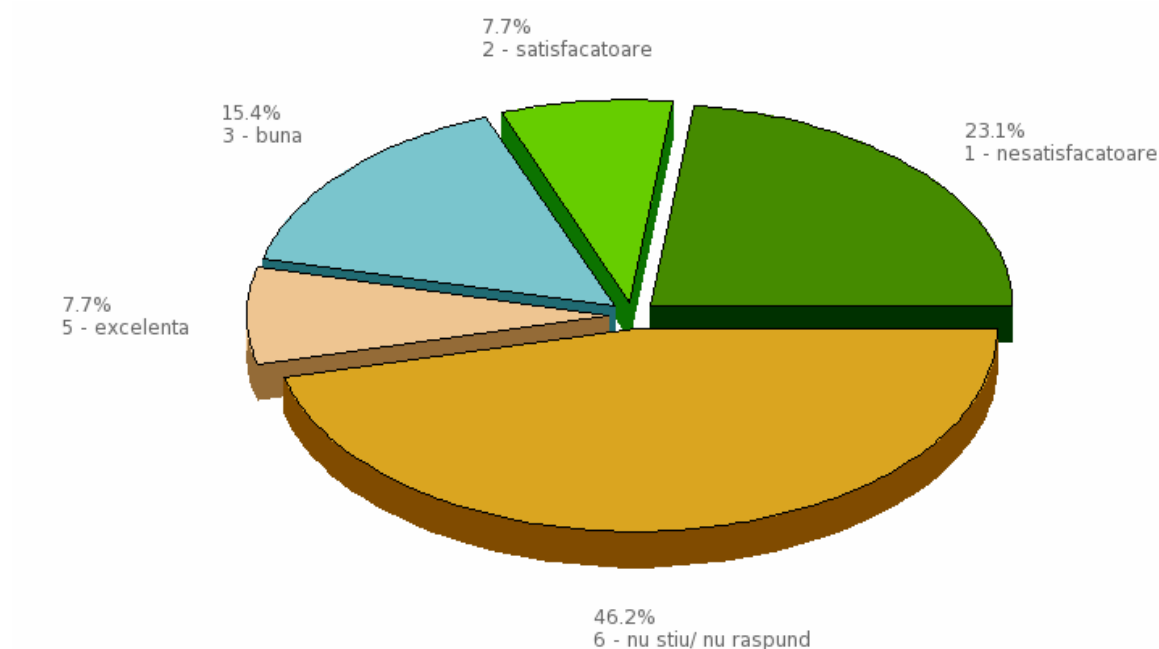


f. In ce masura echipamentele respective joaca un rol in relatia cu industria.

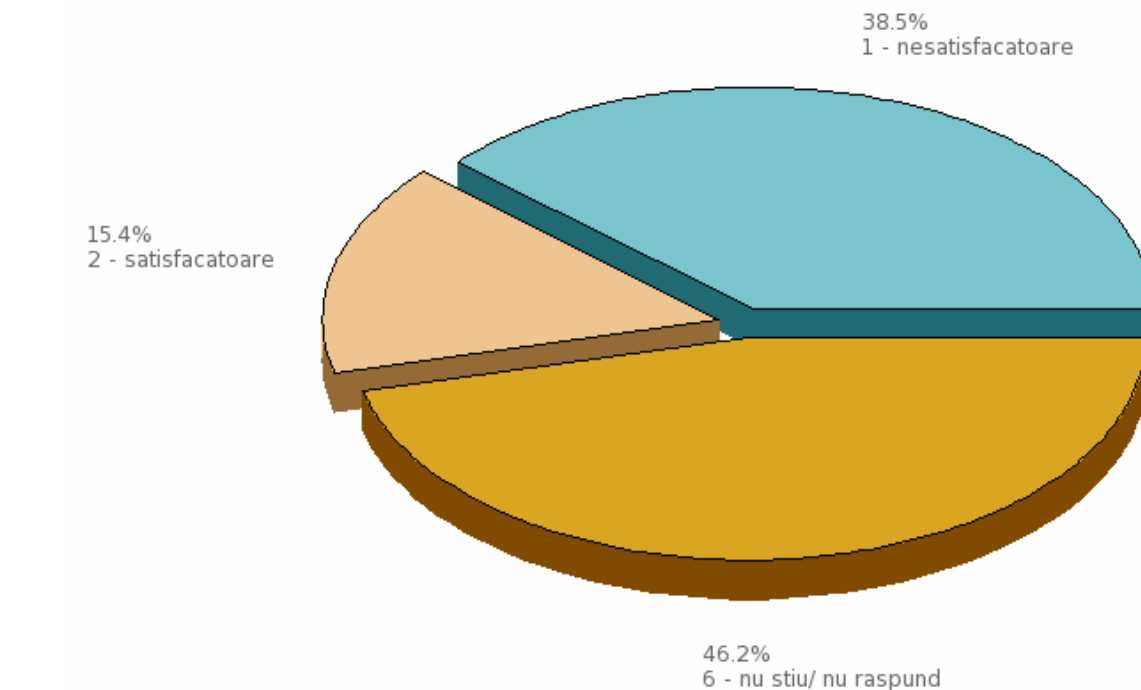


4. Derularea contractelor din programele nationale (din experienta dumneavoastra personala, cum apreciati situatia, pe o scara de la 1 la 5; majoritatea intrebarilor nu sunt specifice domeniului)

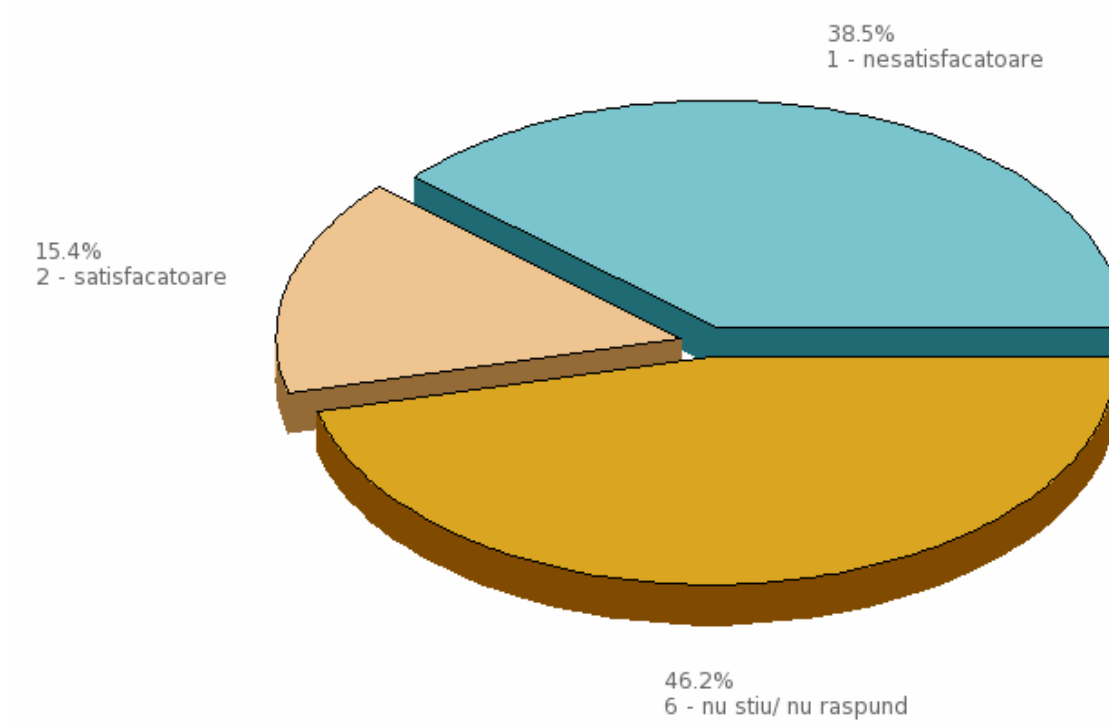
a. Prezenta nanostiintei si nanotehnologiei in programele nationale



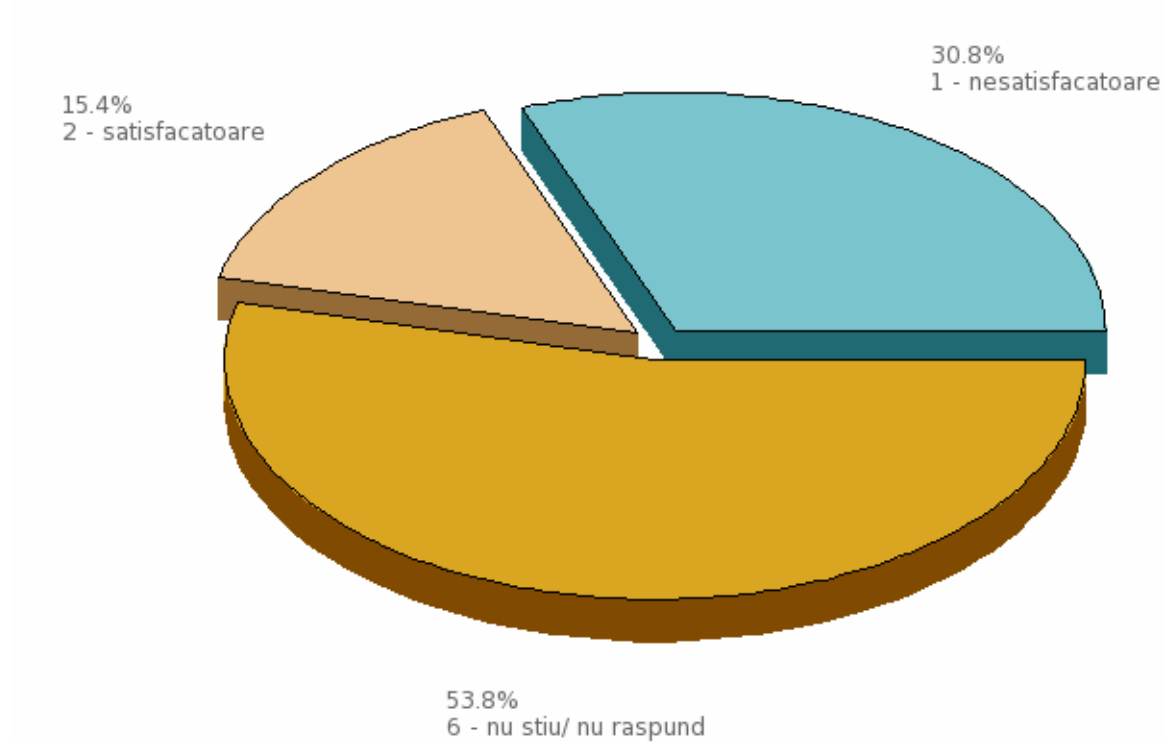
b. Focalizarea pe o tematica reprezentativa (de nivel mondial, legata de prioritatile nationale etc.);



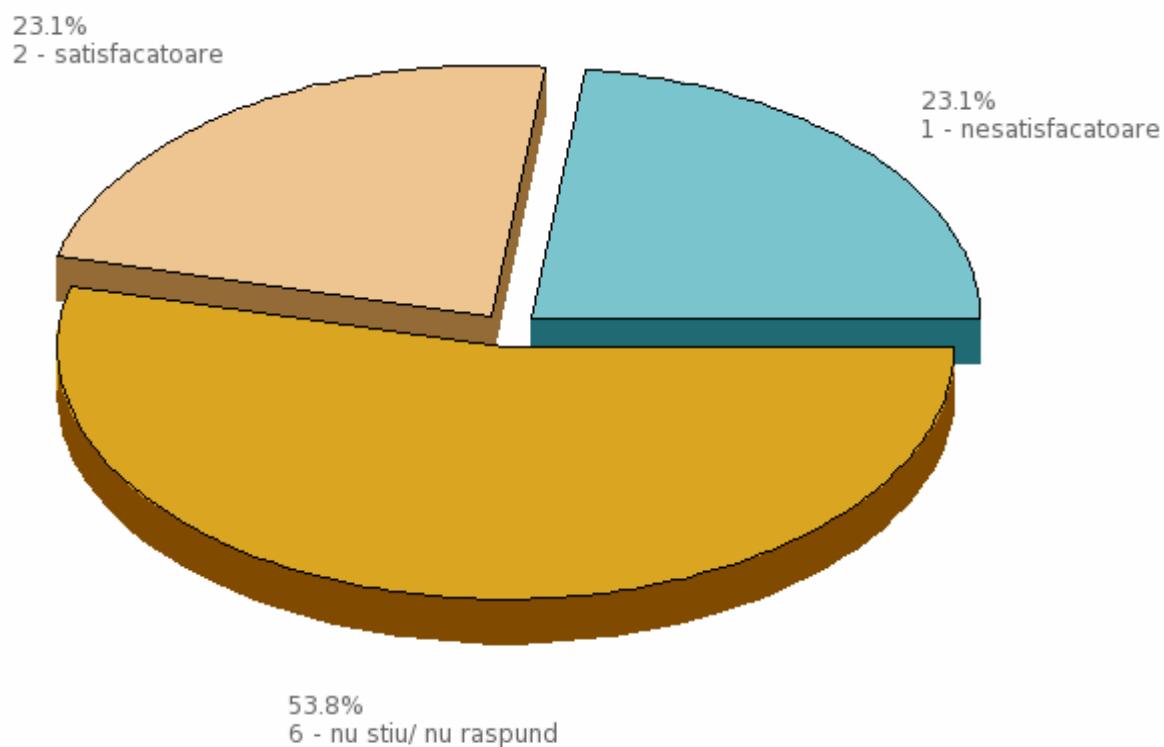
c. Existenta unor criterii judicioase de selectie a propunerilor de proiecte;



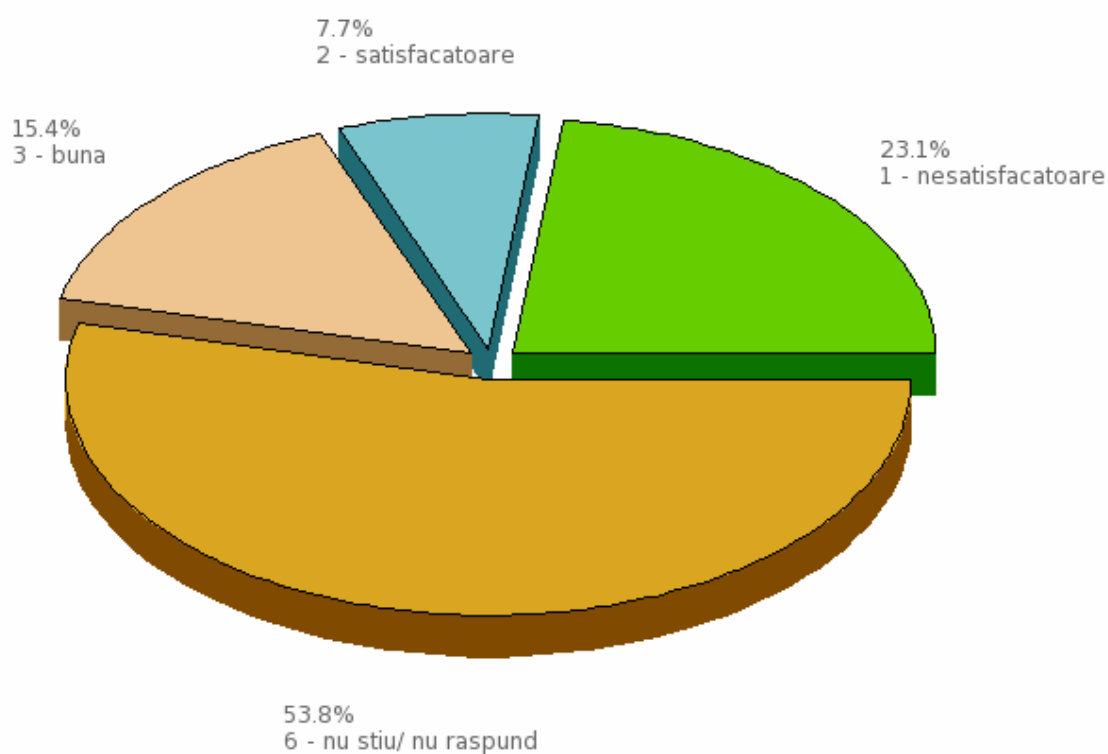
d. Adecvarea finantarii, ca marime si structura a cheltuielilor;



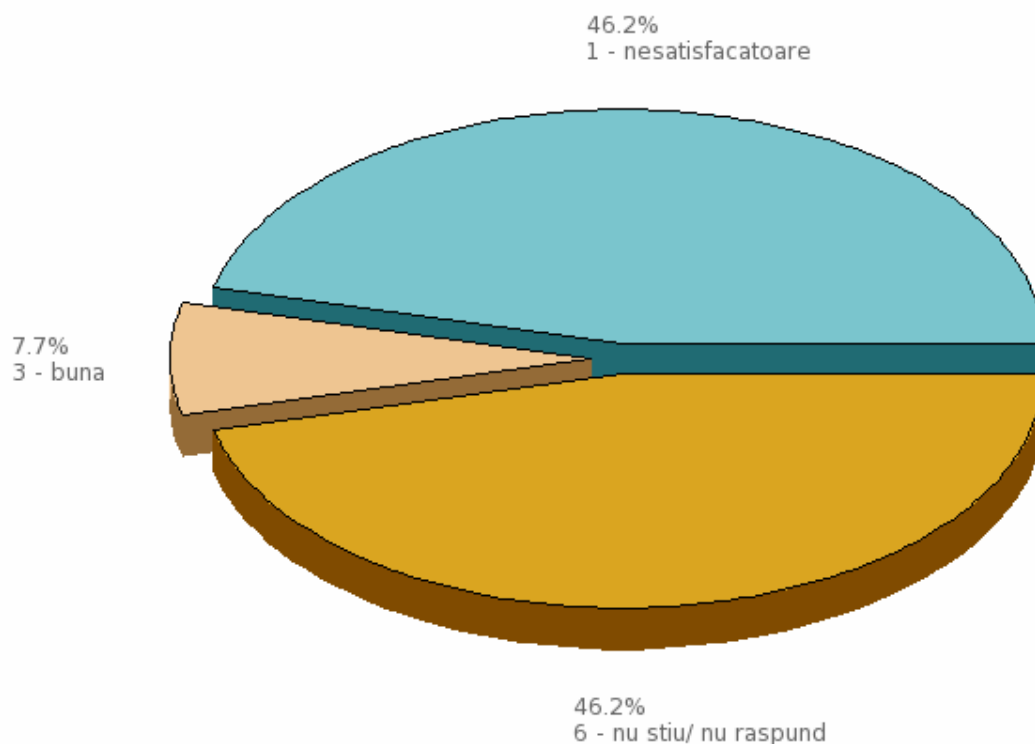
e. Monitorizarea derularii si rezultatelor cercetarii de catre finantator;



f. Valoarea criteriilor de apreciere a rezultatelor cercetarii;

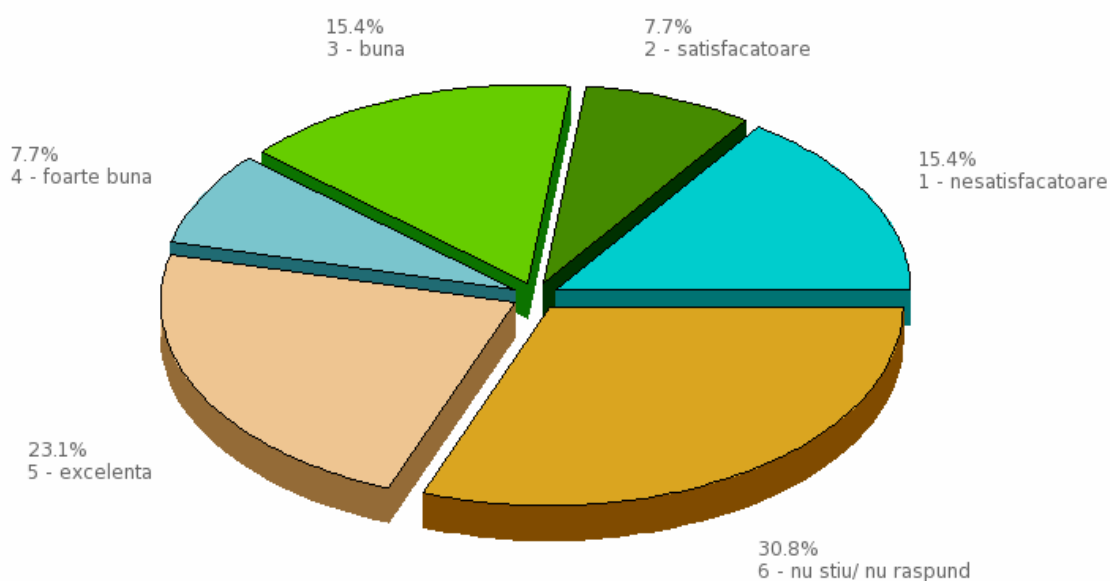


g. Asigurarea continuitatii cercetarii (de la faza "exploratorie", la valorificarea in industrie etc.) prin proiecte succesive, finantate din diverse programe nationale.

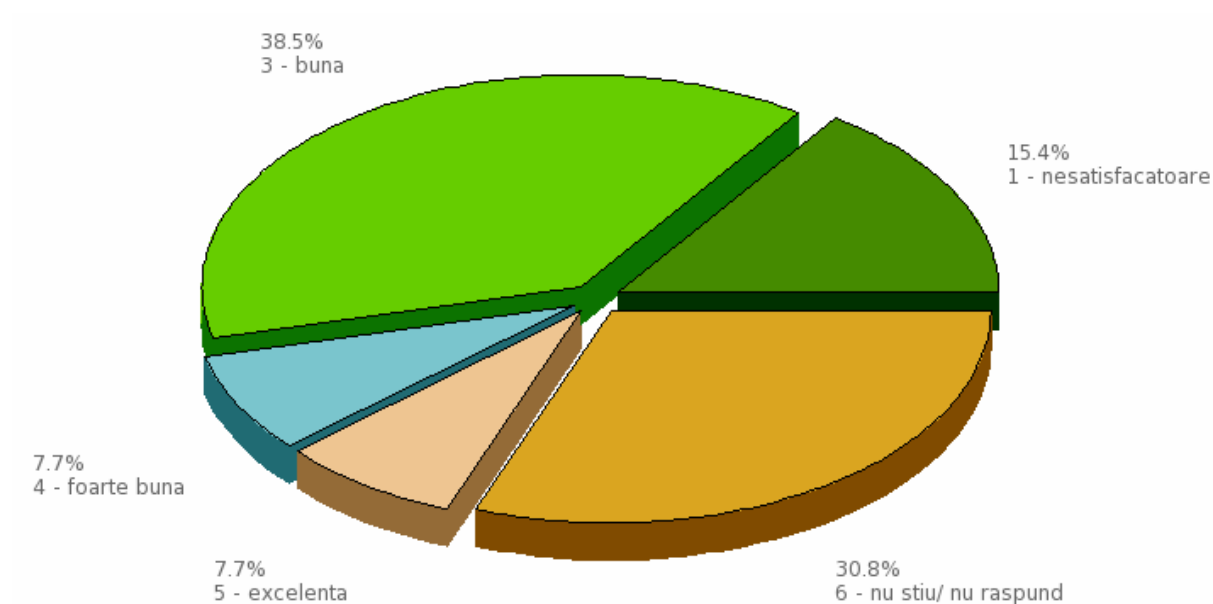


5. Importanta colaborarilor internationale, in special a celor europene (pe baza experientei si a cunoasterii realitatilor din tara, apreciati cat de importante sunt in momentul de fata un aspect sau altul, folosind note intre 1 si 5)

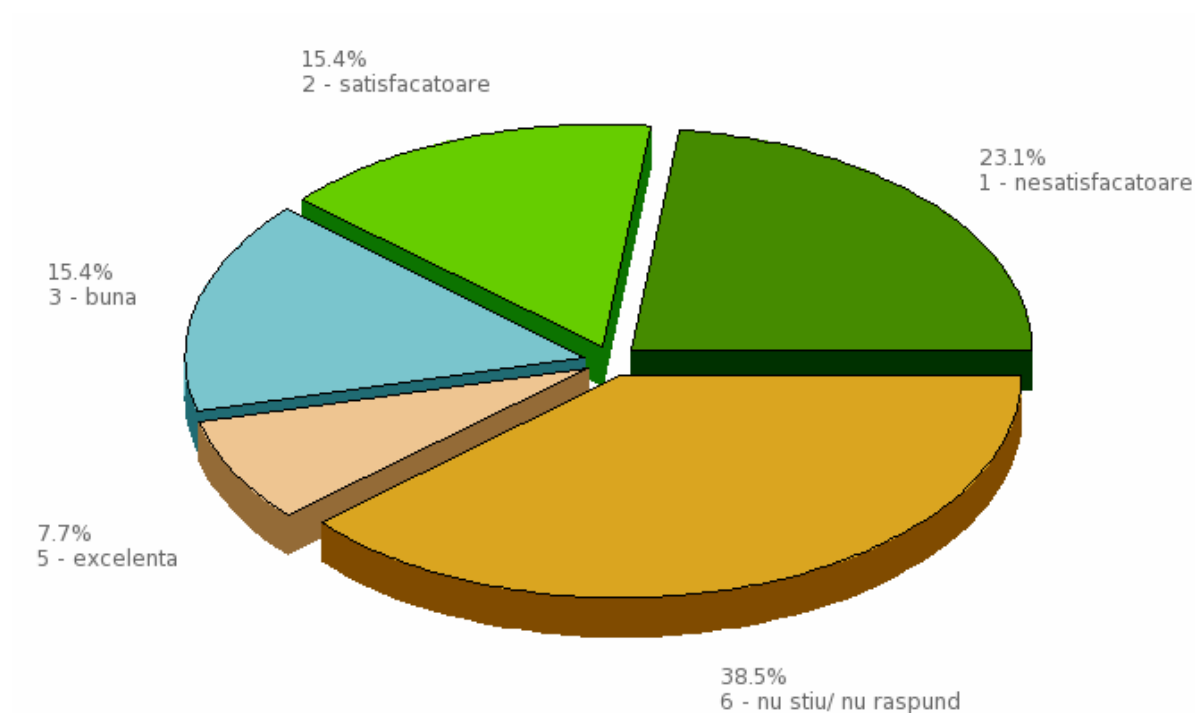
a. Facilitarea participarii la cercetari avansate;



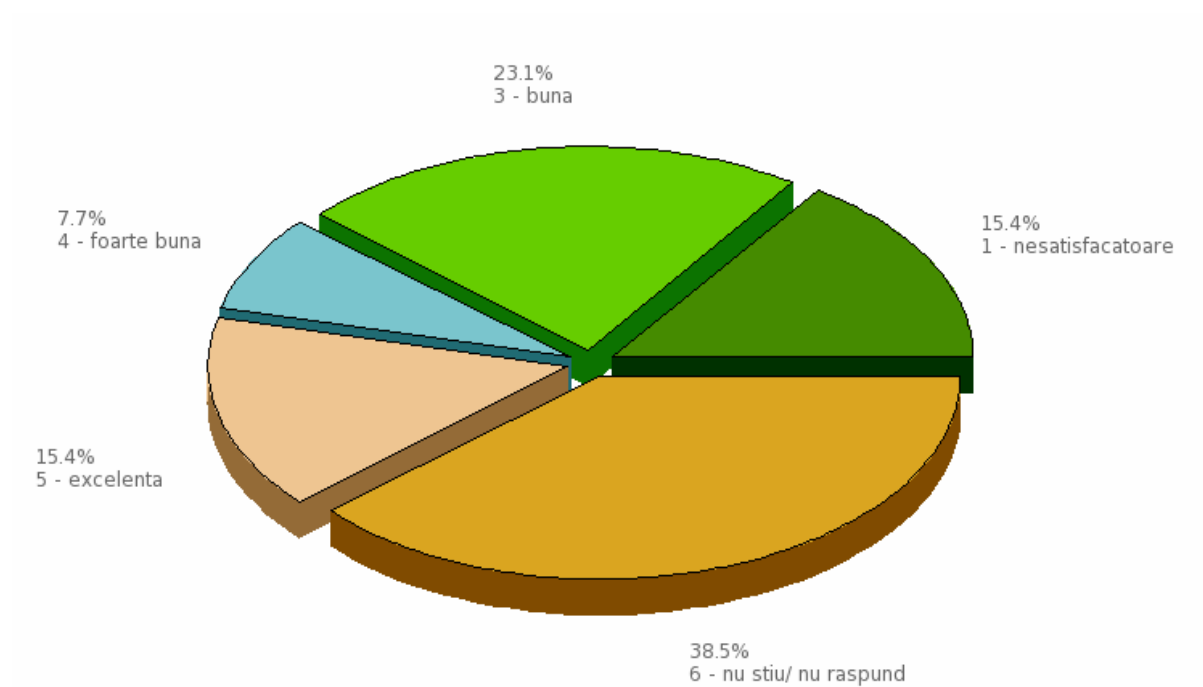
b. Accesul la facilitati si know-how inexistente in Romania;



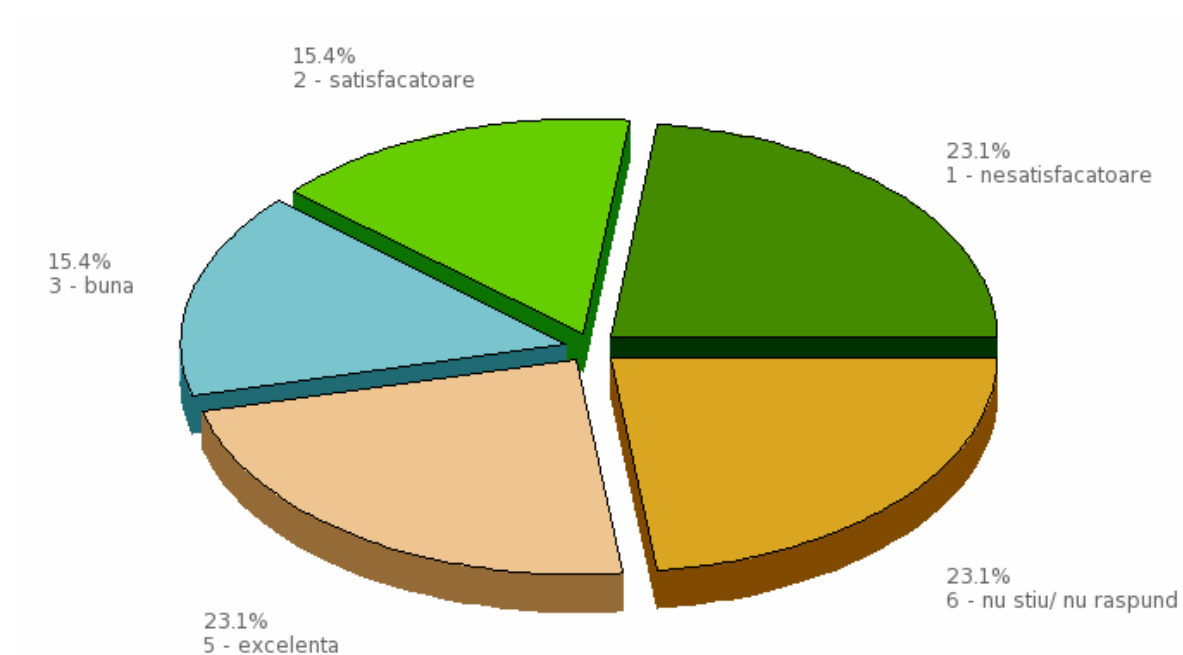
c. Colaborarea cu firme straine;



d. Initierea si consolidarea unor parteneriate;

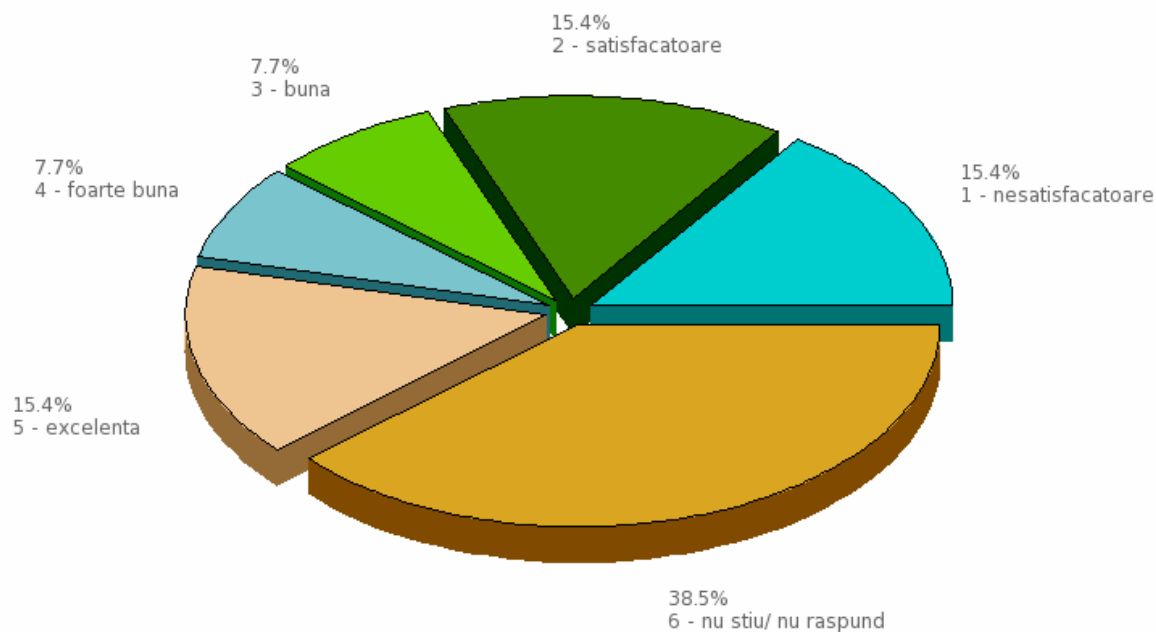


e. Vizibilitate externa.

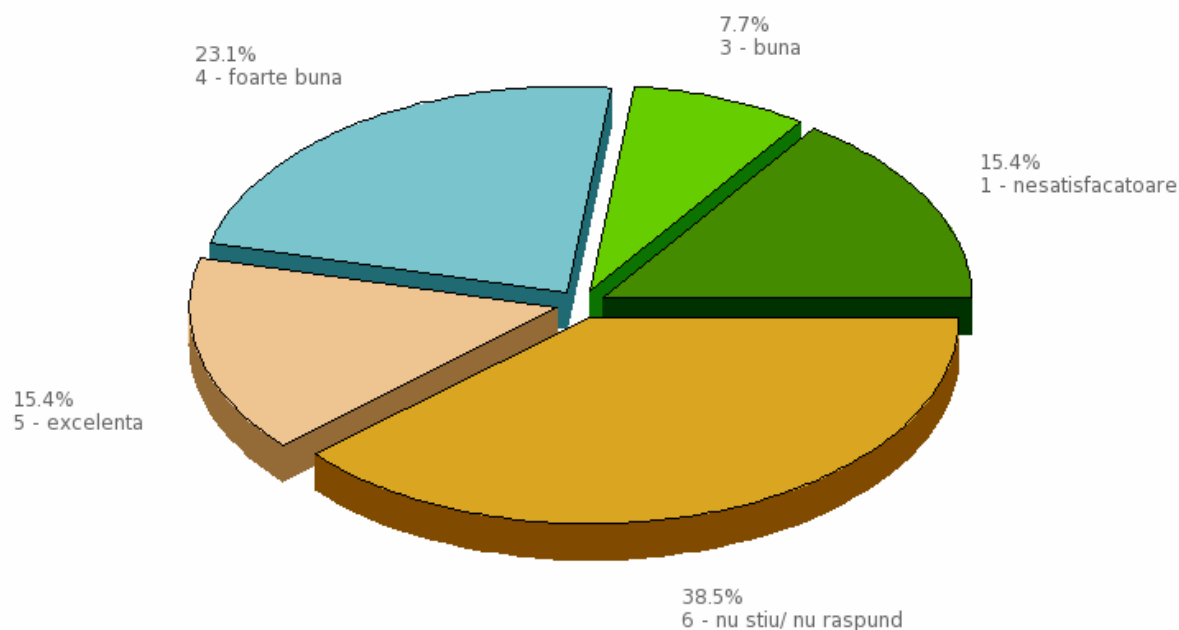


6. Cum apreciati importanta interactiunii cu firmele (romanesti si straine) interesate de CD in domeniul nanotehnologiilor (dupa experienta Dv., in intervalul 2005-2011, importanta notata de la 1 la 5)

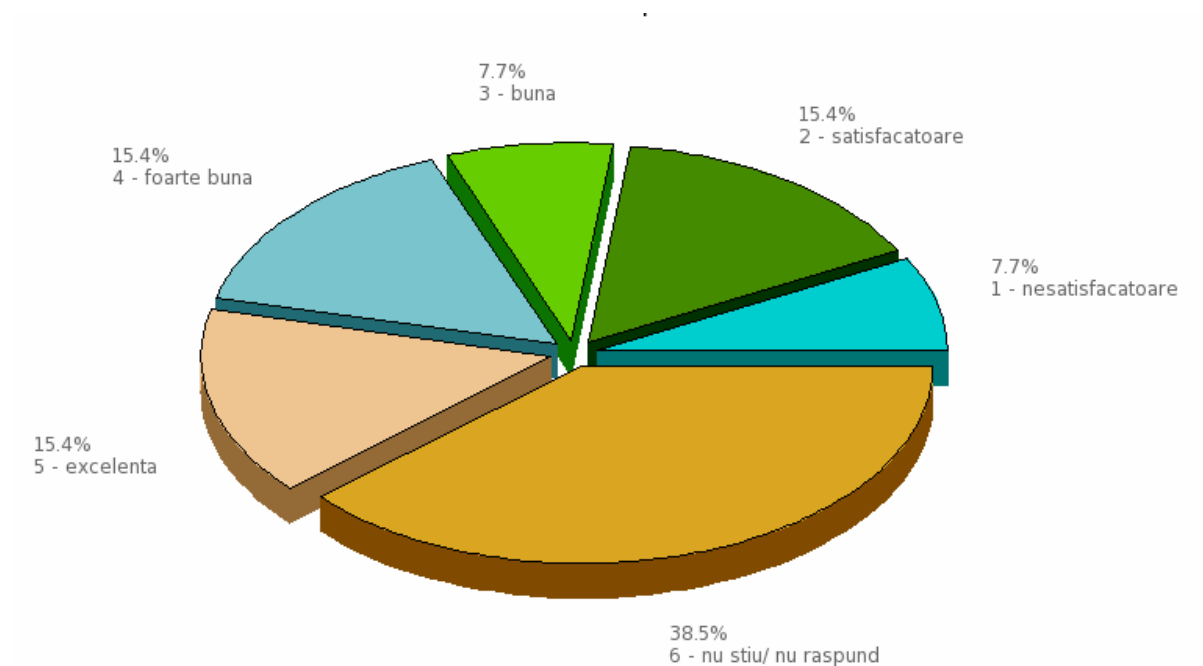
a. In orientarea spre o tematica de actualitate pe plan mondial;



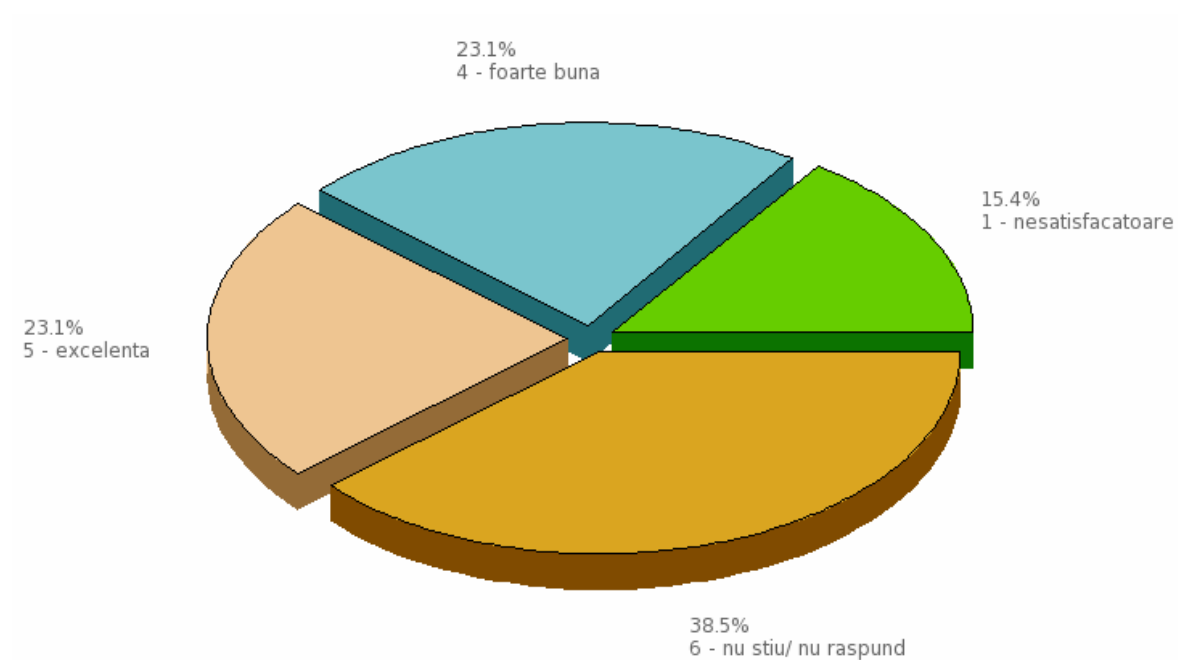
b. In focalizarea activitatii grupului Dv. pe anumite domenii de aplicatie;



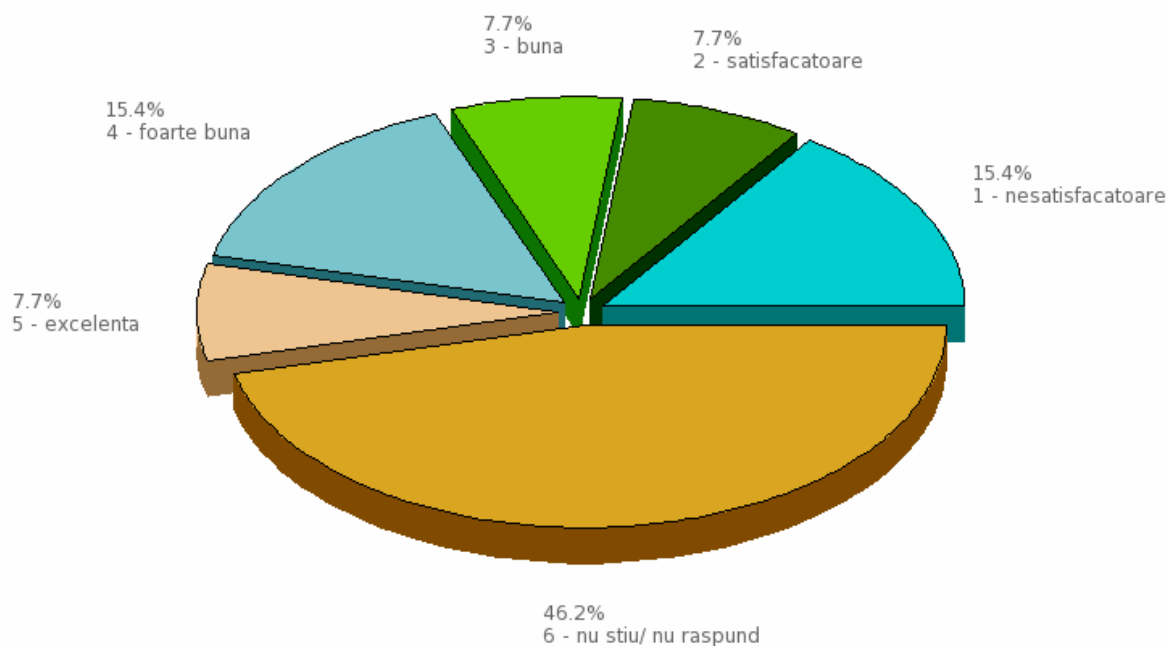
c. In brevetarea unor rezultate ale cercetarii;



d. In finalizarea unei cercetari printr-un produs sau o tehnologie;



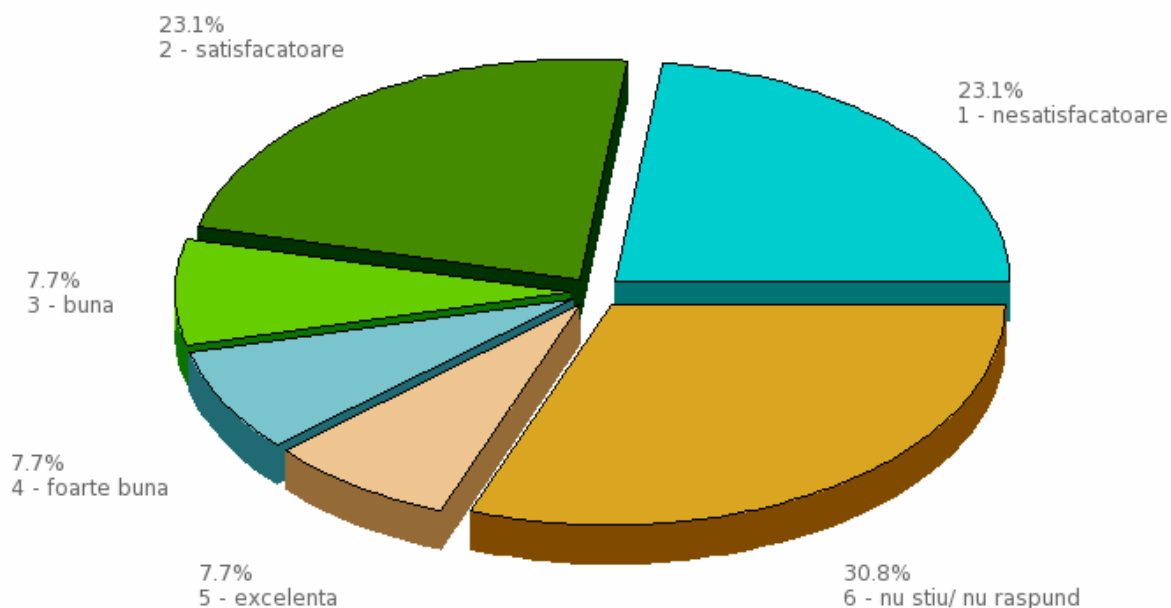
e. In reorientarea strategiei grupului sau organizatiei din care faceti parte.



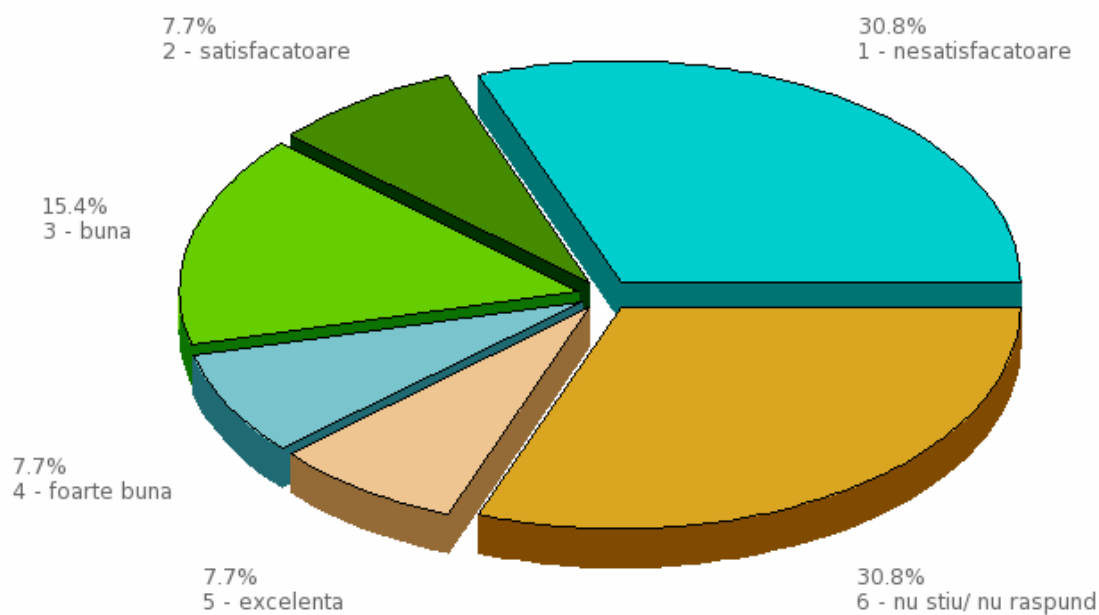
B. Sinteza puncte tari si puncte slabe: nanotehnologiile in Romania

7. Cum apreciati **punctele tari din cercetarea pe plan national 2005-2011 in domeniul nanotehnologiilor** (pe o scara de la 1 la 5, unde 1 cel mai putin important, 5 cel mai important; nu pot exista doua notari identice)

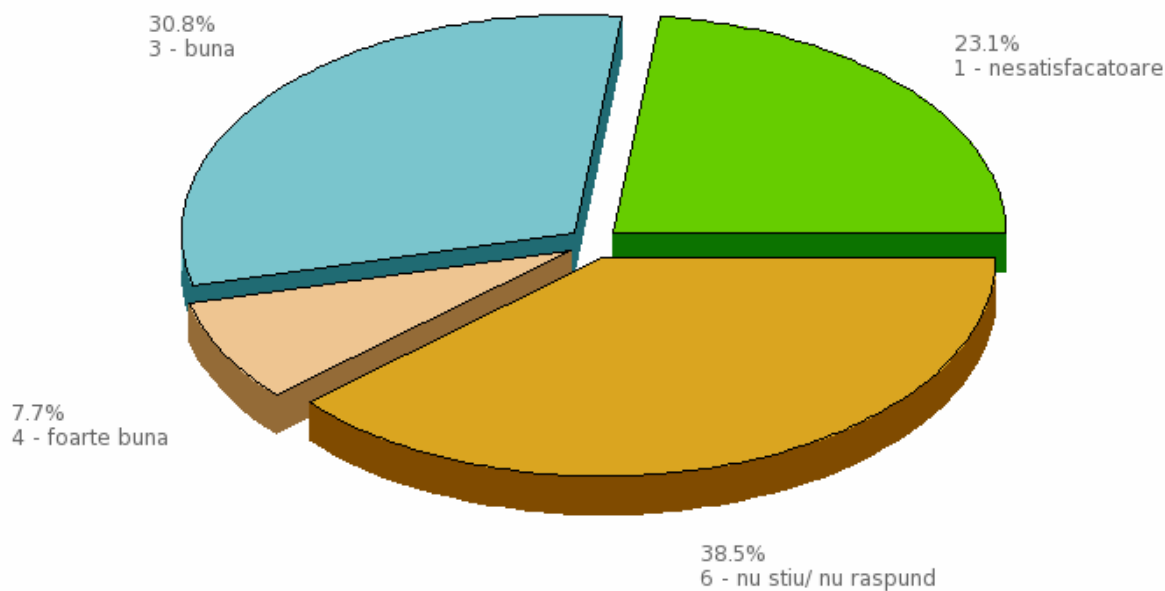
a. Cercetatorii cu publicatii in reviste internationale de specialitate, in domeniile stiinta materialelor, fizica, chimie, biologie, medicina, inginerie.



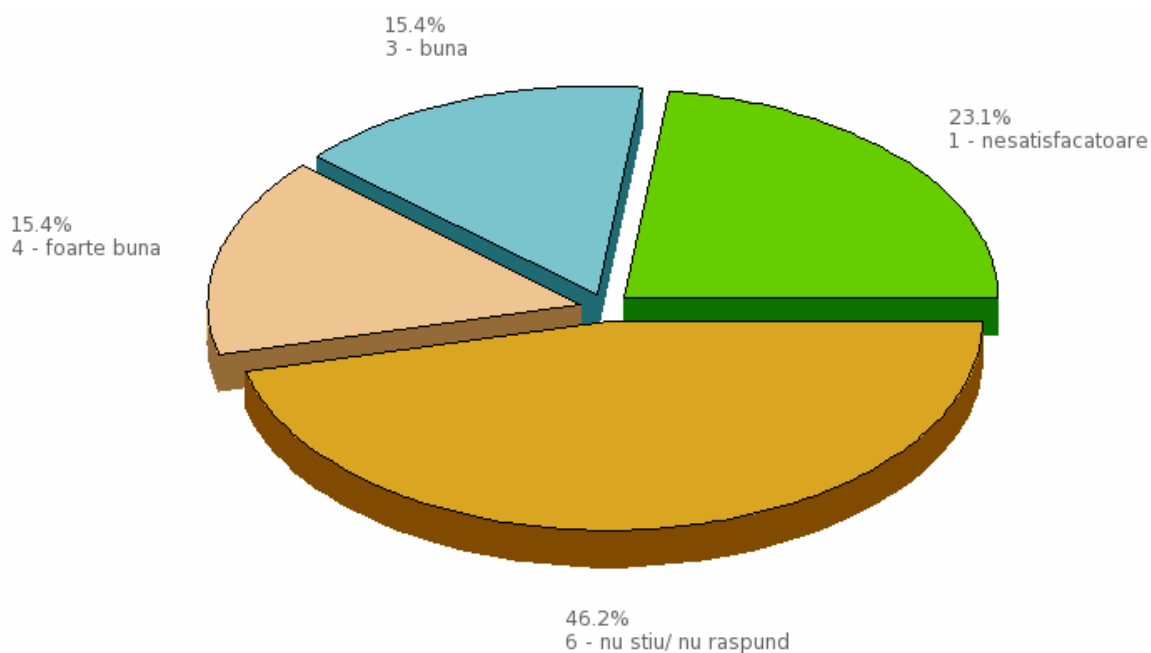
b. Existenta unor scoli romanesti recunoscute international, cu traditie indelungata in domeniile mentionate.



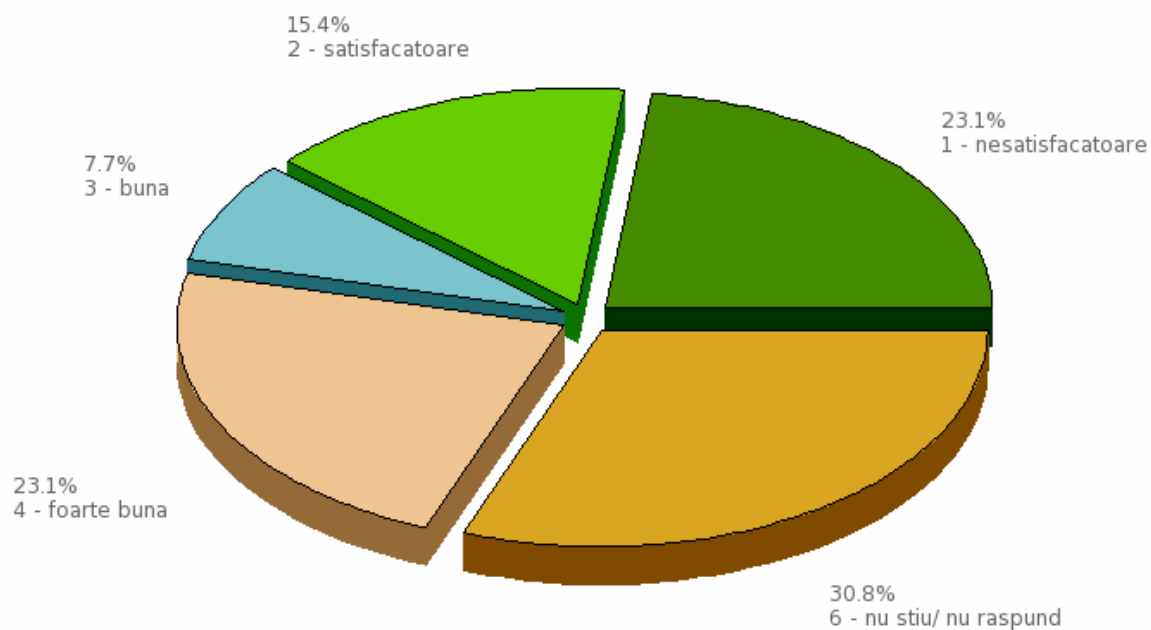
c. Dotari cu echipamante specifice performante, de ultima generatie.



d. Colaborarile internationale: relatiile institutionale cu actori principali in domeniul nanostiintelor si nanotehnologiilor; colaborarile efective in proiecte europene, colaborari cu firme importante din strainatate.

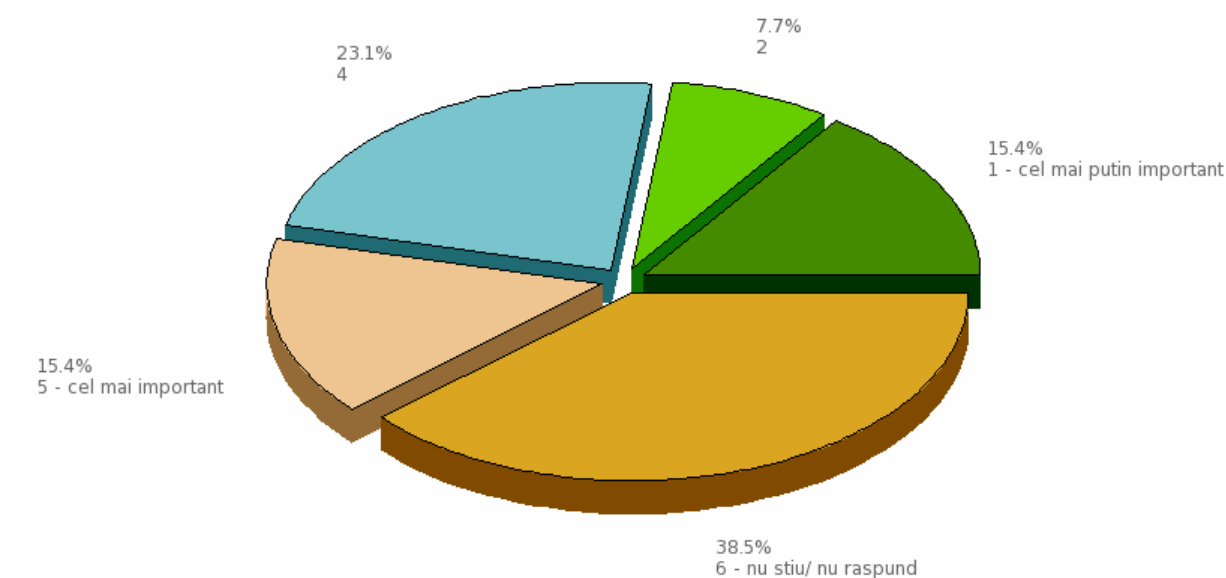


e. Prezenta in Romania a unor firme straine interesate de colaborare in domeniu

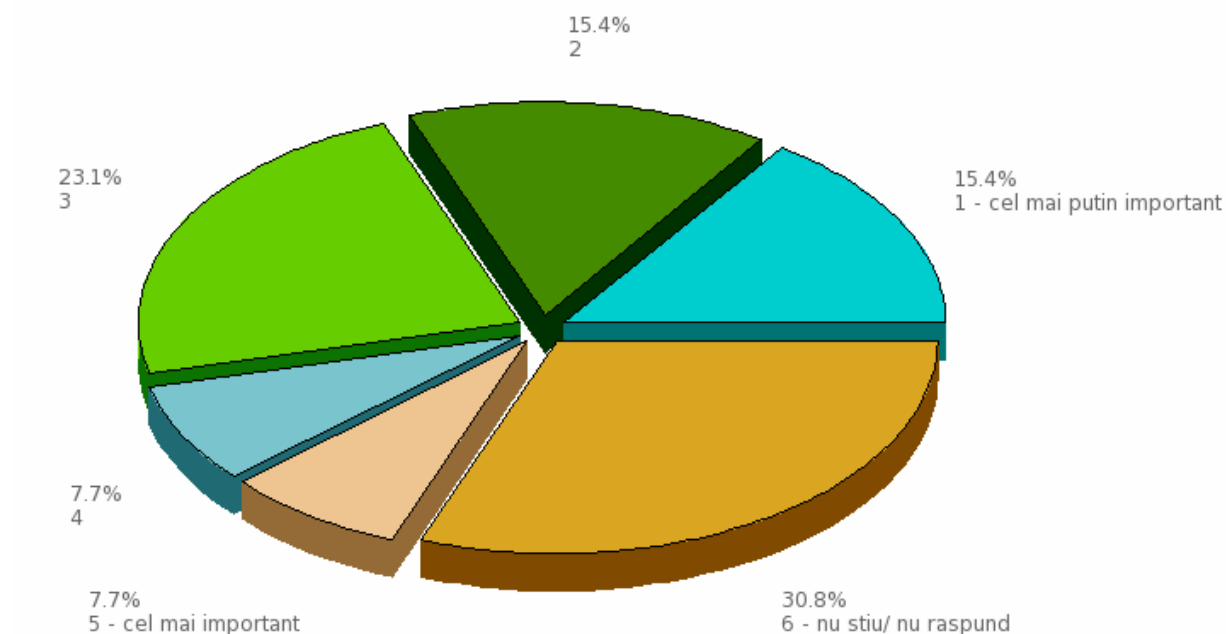


8. Cum apreciați punctele slabe din cercetarea pe plan national 2005-2011 in domeniul nanotehnologiilor (pe o scara de la 1 la 5, unde 1 - cel mai putin important , 5 - cel mai important; nu pot exista doua notari identice)

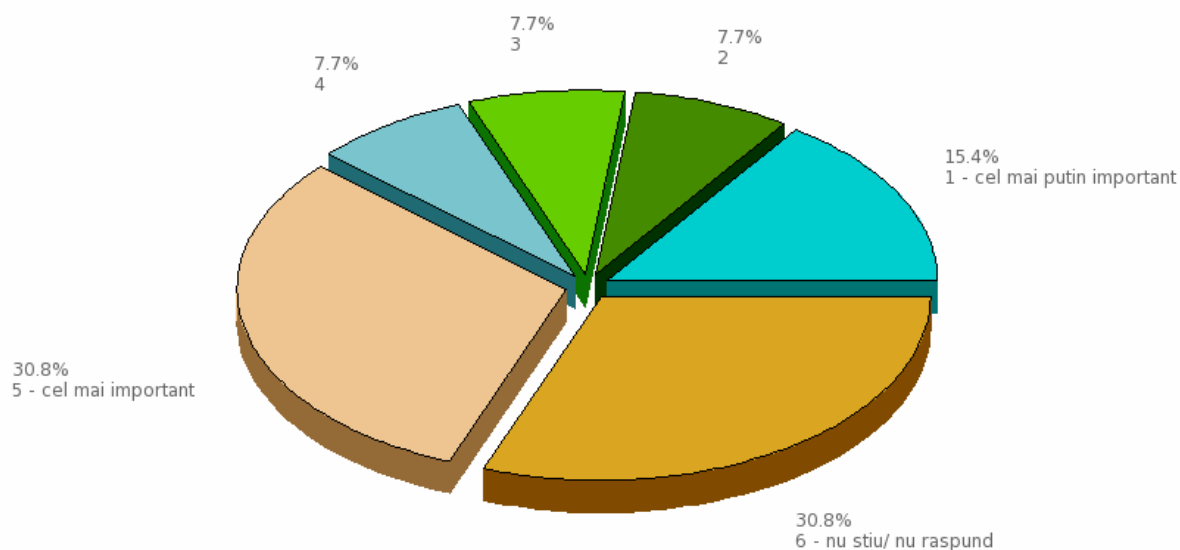
a. Fragmentarea finantarii (contracte cu tematici diferite, necorelate; lipsa unei continuitati a cercetarii la nivelul aceluiasi colectiv; lipsa unor parteneriate de durata)



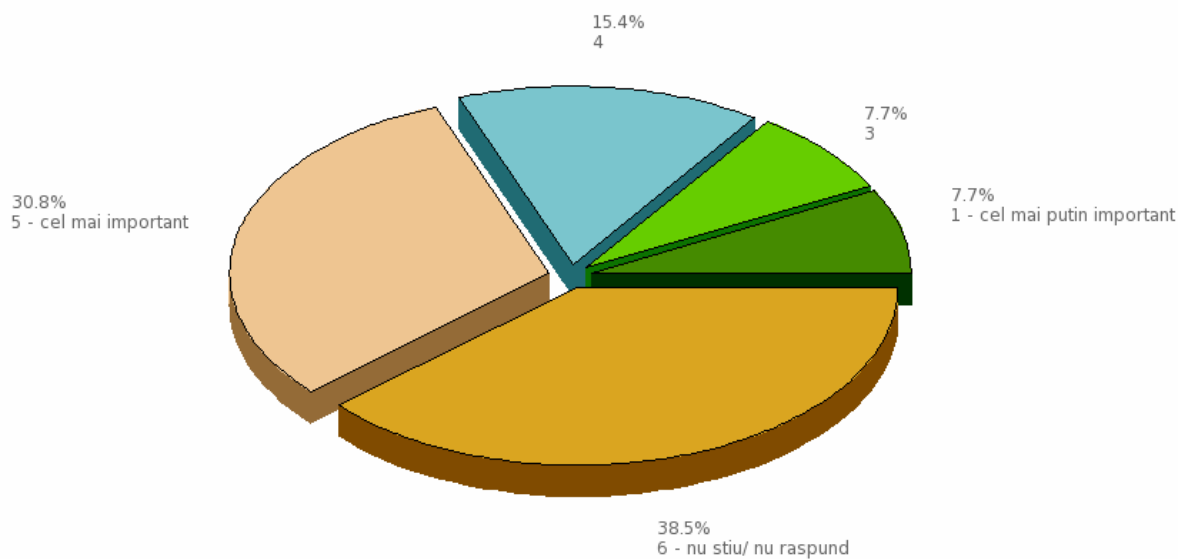
b. Absenta unei politici nationale in privinta dotarii cu echipamente performante, a incurajarii dotarilor complementare, a utilizarii dotarilor existente in cadrul unor retele de facilitati etc.



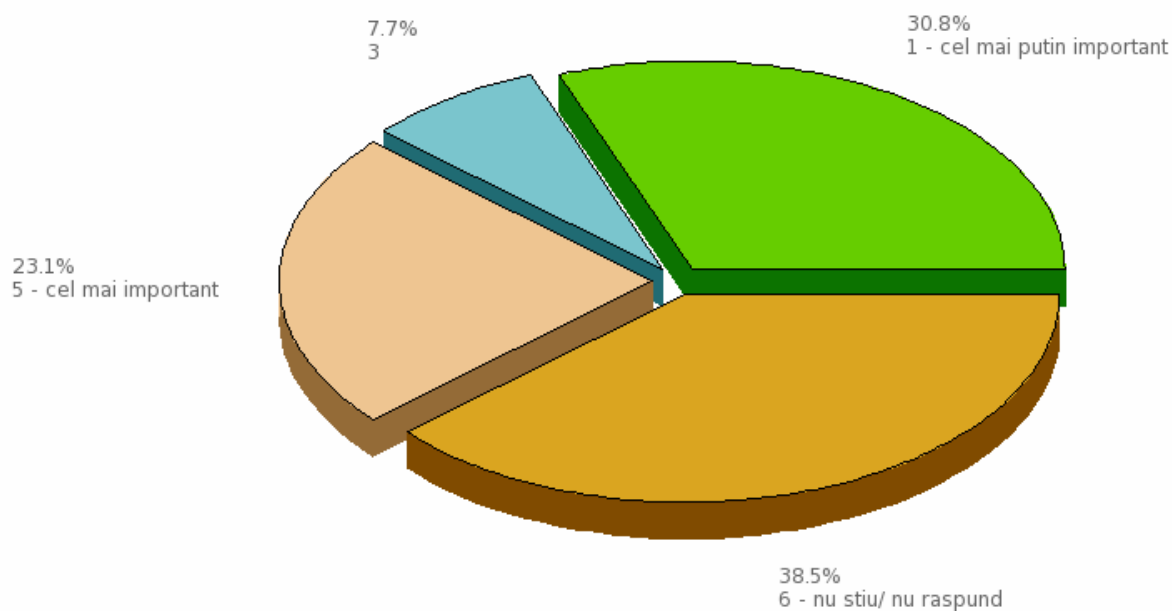
c. Calitatea si marimea resurselor umane. Nevoie de o masa critica si de colective multidisciplinare. Instabilitatea resursei umane (cercetatori si personal tehnic)



d. Interactiunea redusa a industriei din Romania cu activitatile de cercetare, educatie si inovare din institutiile publice



e. Inexistenta unei strategii nationale in domeniul nanotehnologiilor, care sa prevada printre altele:



- Focalizarea pe anumite tematici si anumite domenii de aplicatie;
- Asigurarea unei politici coerente de investitii si de utilizare a bazei existente la nivel national
- O politica de resurse umane, care sa asigure formarea unor cercetatori pentru domenii interdisciplinare, instruire pentru firme etc.
- Parteneriate de durata cu industria (in cadrul unor clustere, poli de excelenta etc.).