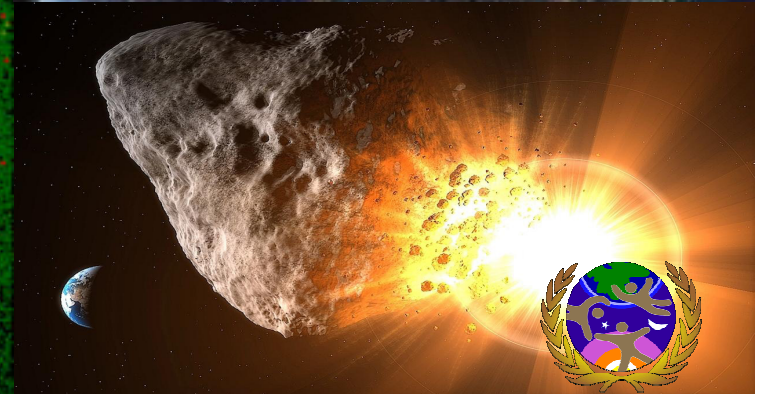
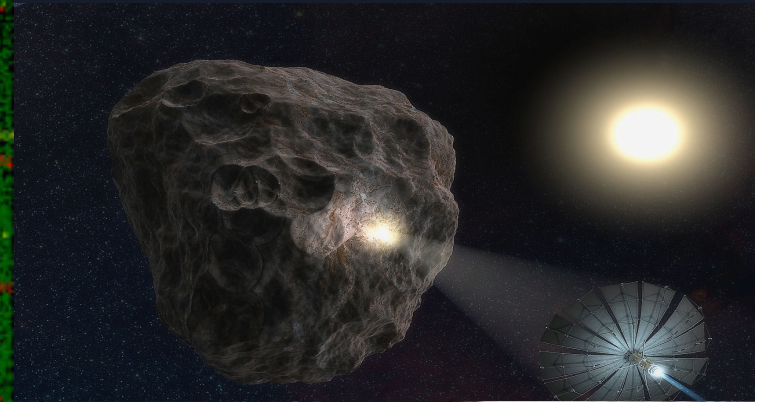
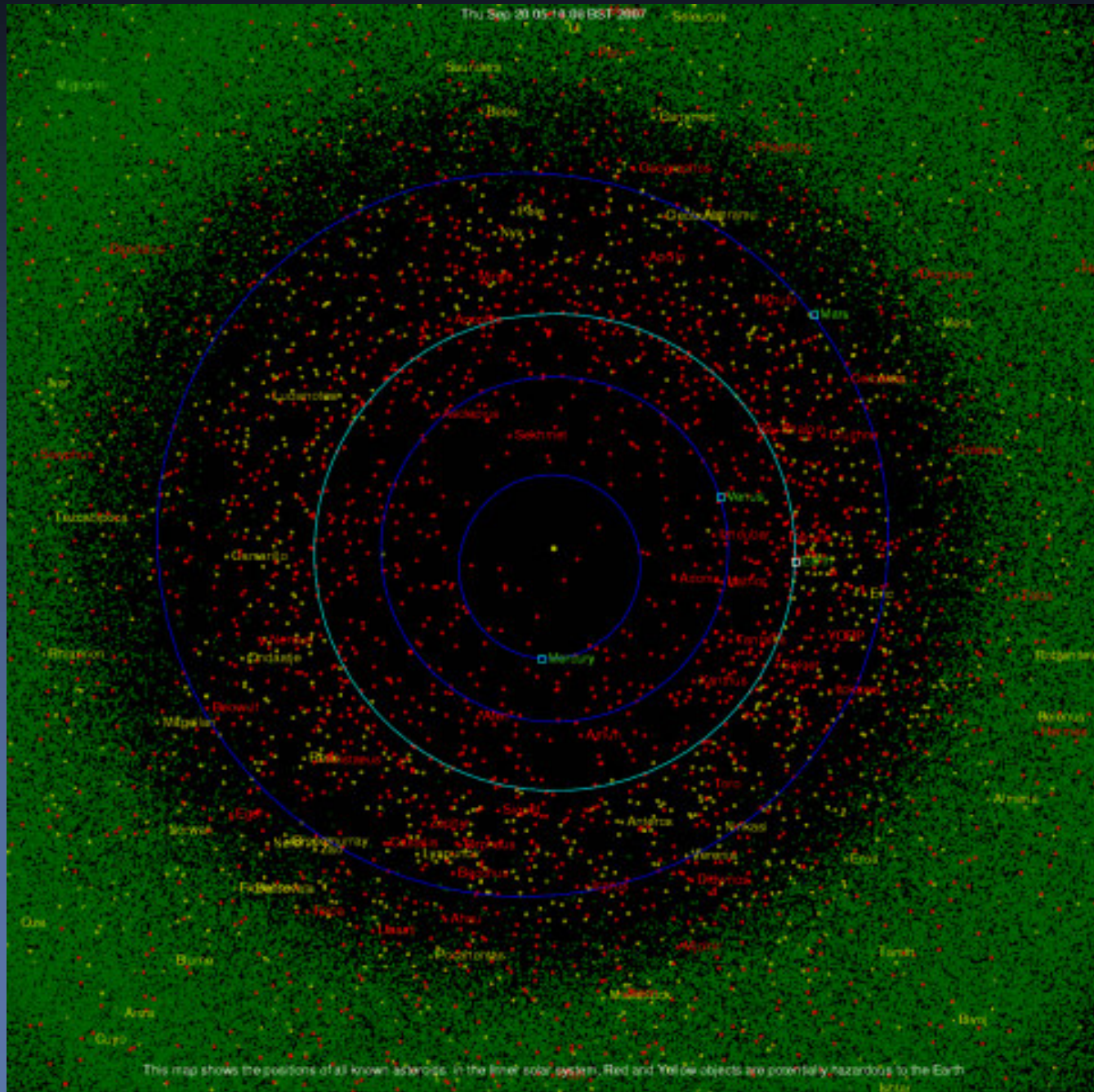


NEOs – A Youth Perspective

THE SPACE GENERATION



Near Earth Objects

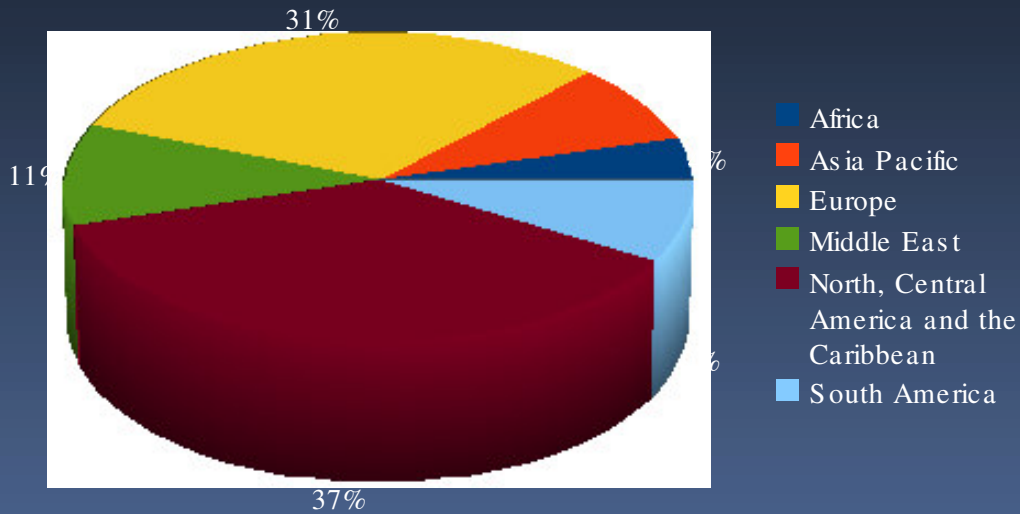


SGAC Survey Tool

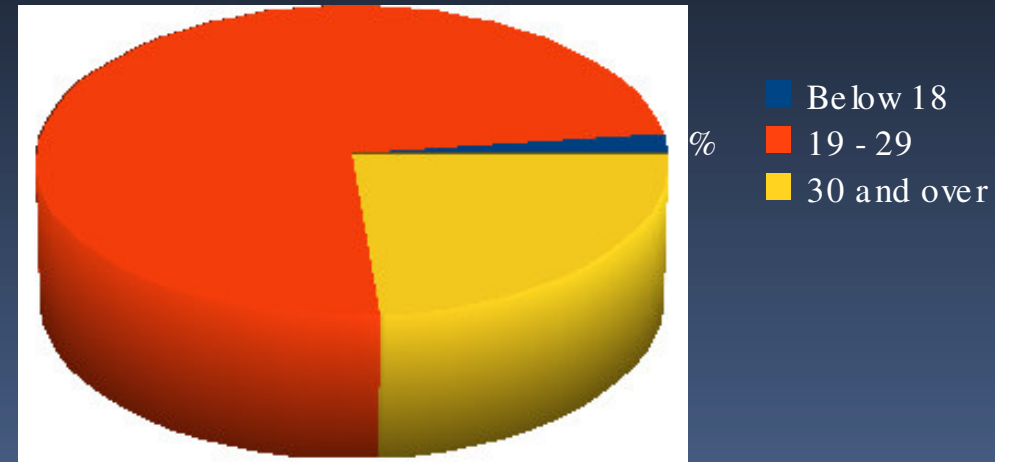


Personal Background Info

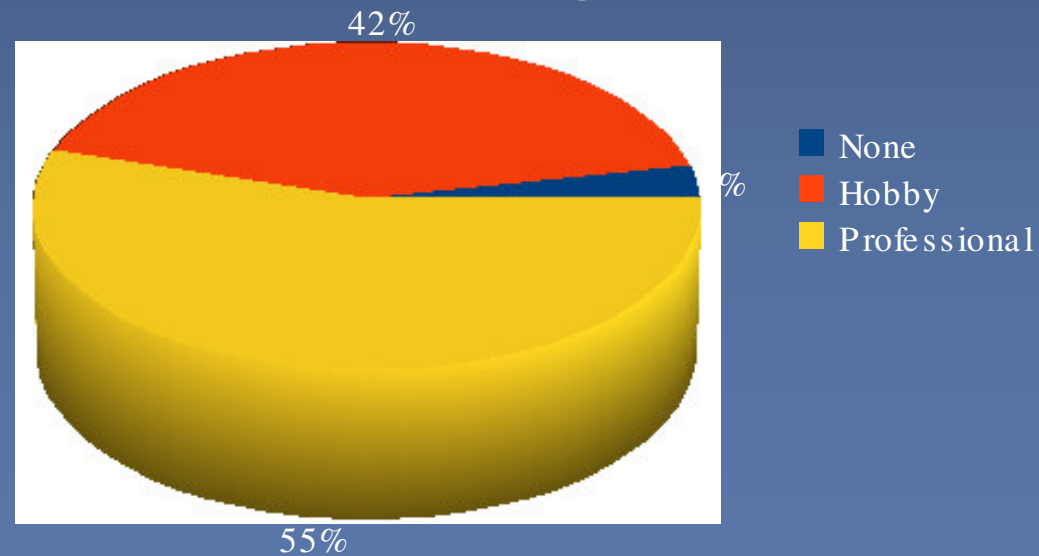
Which region are you from?



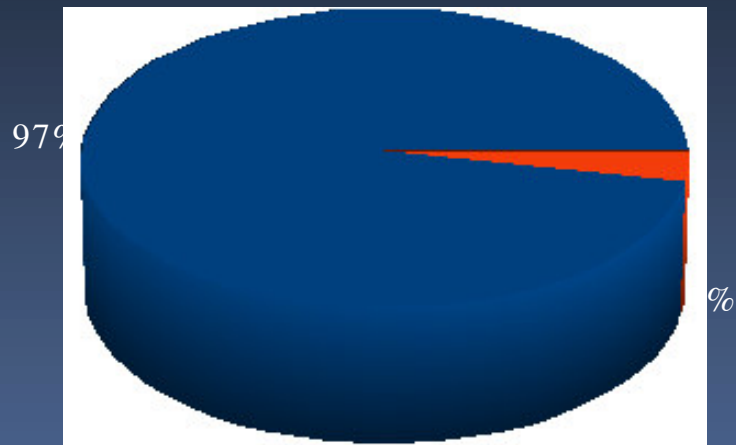
How old are you?



What is your space background?

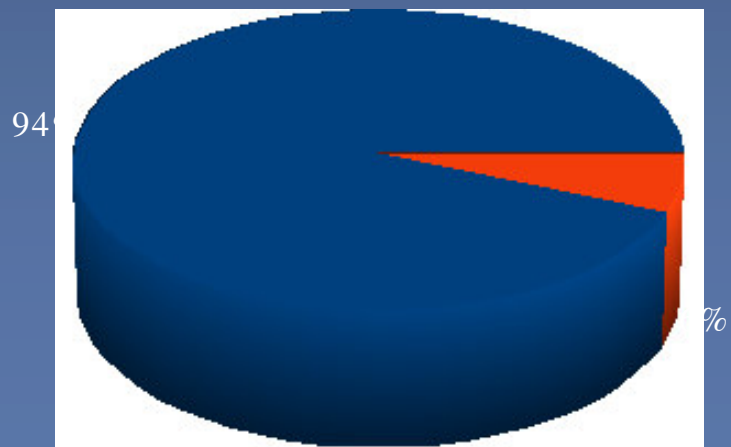


The threat of NEOs (1/2)



■ Yes
■ No

Have you heard of NEOs (asteroids crossing the path of Earth) before?



■ Yes
■ No

Did you know that people are concerned they could hit Earth?

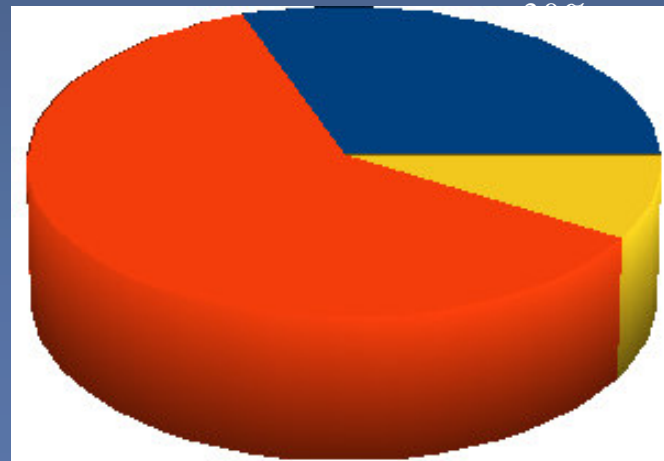


The threat of NEOs (2/2)

Note: How often an impact occurs depends on the size of the NEO. Larger impacts occur much less frequently than small ones.

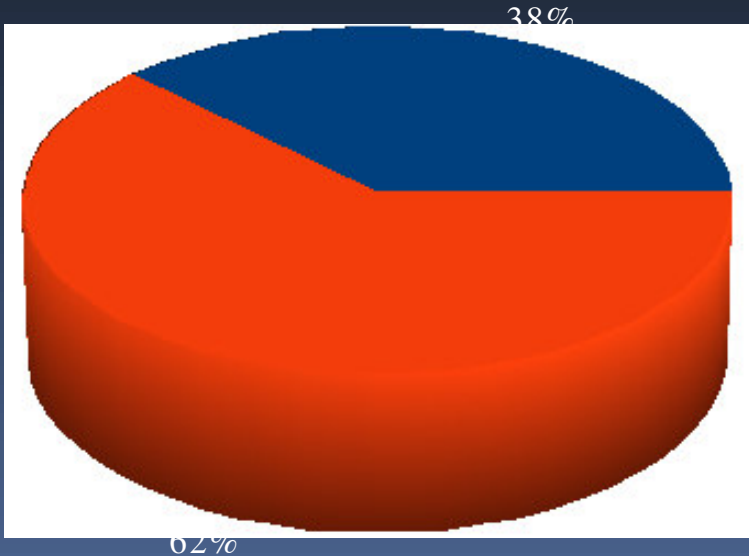
- About a hundred fist-sized meteorites fall every day.
- About five 10 metre diameter NEOs explode in the upper atmosphere each year but have no effect on the ground.
- A 60 m diameter NEO will hit the Earth every few hundred years and may explode at low altitude to cause local damage.
- A 1 km diameter crater will form on the Earth's surface every few thousand years
- A NEO larger than 1 km will collide with the Earth every few hundred thousand years and will have global consequences.
- A NEO around 6 km that could cause a mass extinction will collide with the Earth every hundred million years.

How do you perceive the threat of an impact?



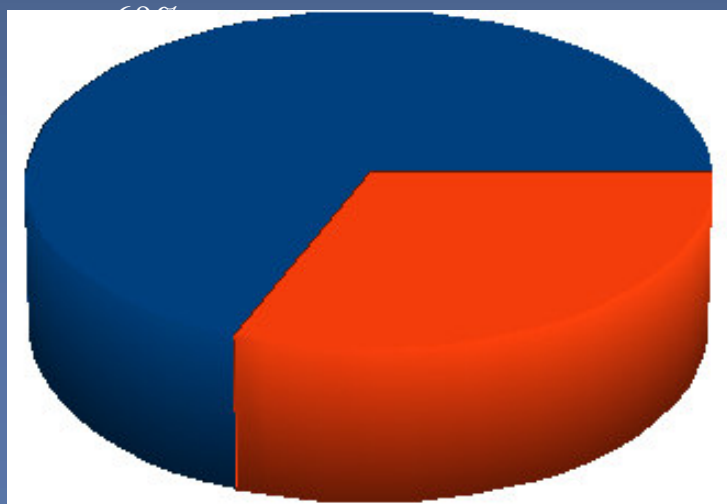
- Low (not in my life time)
- Medium (maybe in my life time)
- High (for sure in my life time)

Mitigation Strategies (1/2)



■ Yes
■ No

Did you know that an estimated 90% of all NEOs larger than 1 km but only 4% of the NEOs larger than 140 m have been discovered so far?

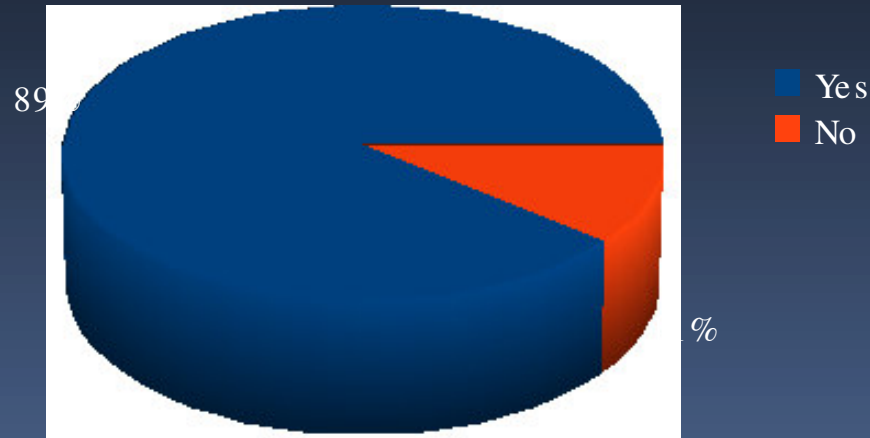


■ Yes
■ No

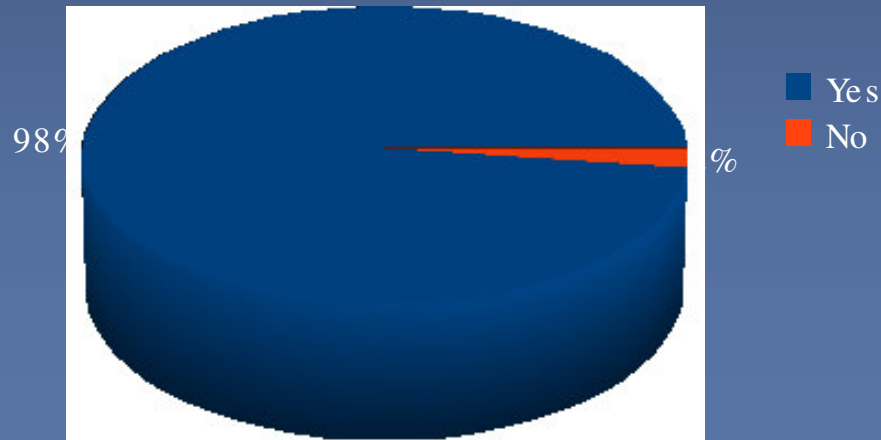
Did you know that a NEO impact is the only natural disaster we can predict and avoid from happening? (if the NEO is detected of course)



Mitigation Strategies(2/2)

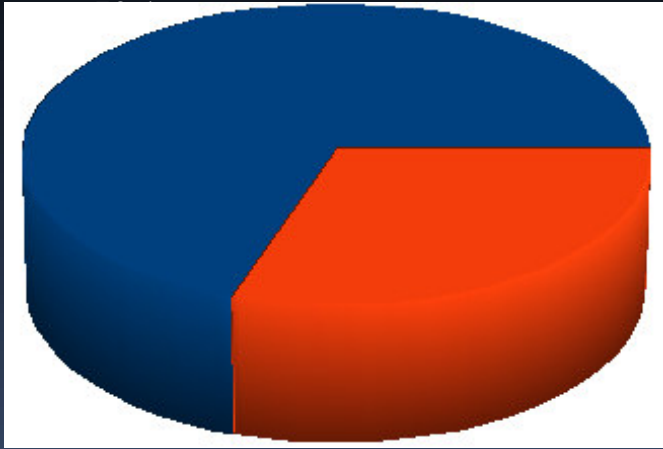


Did you know there are several ideas how to deflect asteroids?
(given enough warning time)



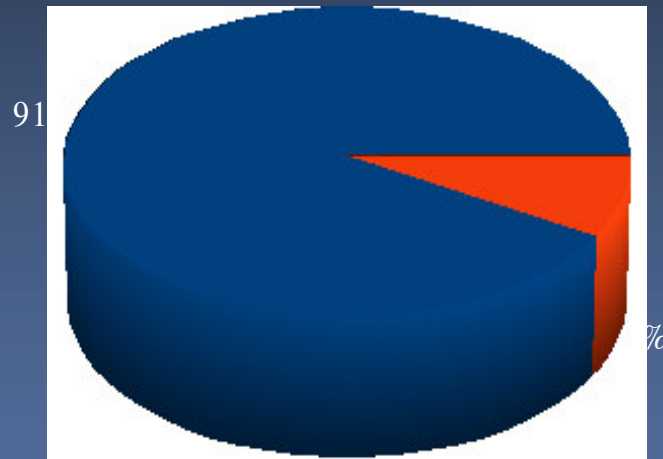
Do you think we should try to deflect them if they threaten to hit Earth?

Global Governance



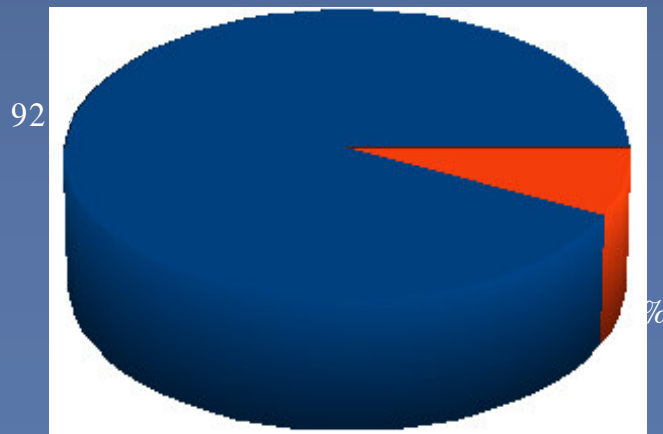
■ Yes
■ No

Did you know that there is currently no global and just a few national plans in place to make decisions if a NEO is headed for Earth?



■ Yes
■ No

Do you think we need an international treaty?
(to clarify: who decides, conducts, pays,
and is liable for a deflection mission and its
consequences)

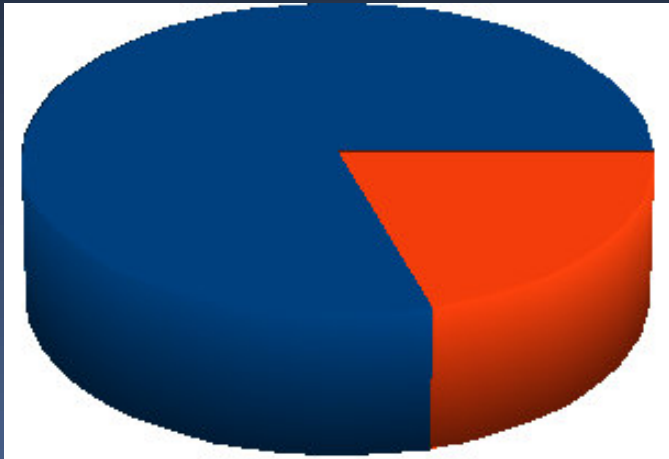


■ Yes
■ No

Do you support the activities of the
Association of Space Explorers
on drafting such a legal framework
within the UN on the NEO issue?

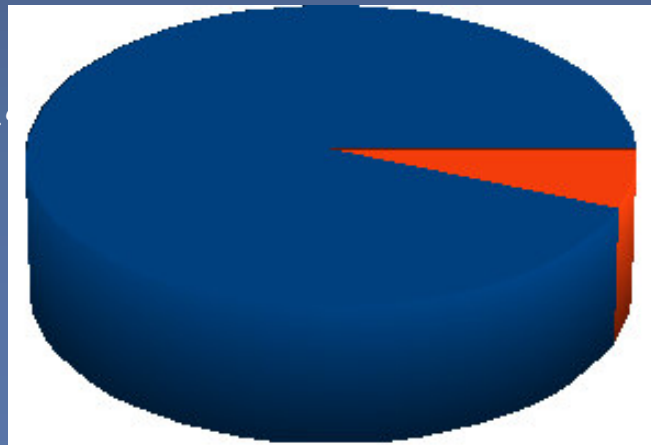


Youth Involvement



■ Yes
■ No

Do you think NEOs are an issue that concerns youth?



■ Yes
■ No

Do you think youth should be more involved?



Comments and Suggestions

One third of participants gave comments:

- (50%) Education and Outreach needed
- (25%) International approach
- (10%) more research needed





SPACE GENERATION

the global space youth network

in support of the United Nations Programme on Space Applications

www.spacegeneration.org