TACTILE ASTRONOMY A PORTUGUESE CASE STUDY

L. Canas, F. Alves, A. Correia

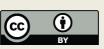
Portugal



THE **IMPORTANCE** OF **ASTRONOMY**

In outreach initiatives In school science curricula









ACTIVITIES

Adapted to Portuguese for visually impaired audiences









>> Planetarium show adaptation "The sky in your hands".









ACTIVITIES Adapted to Portuguese for visually

impaired audiences





>> Exhibition of tactile material: images and a 3D moon model;



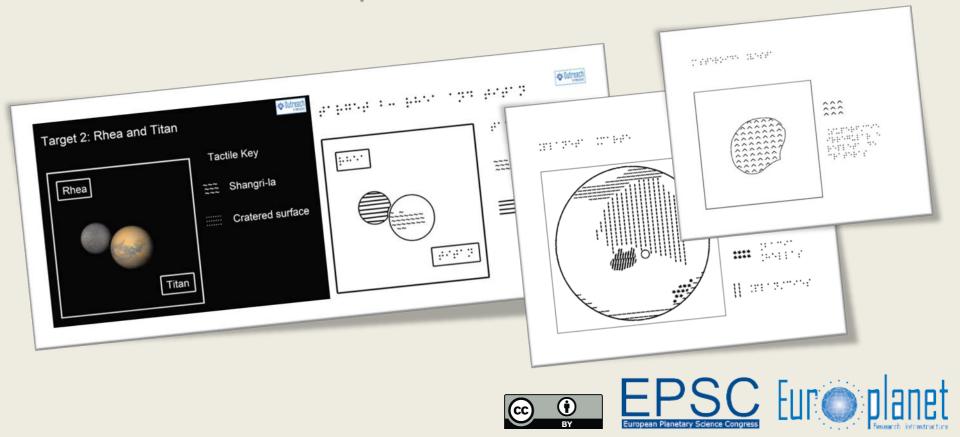




RESOURCES

>> These images in relief, highlight, through touch, several relevant features present in the different astronomical objects studied.

>> The scientific knowledge is apprehended through the use of a tactile key, complemented with additional information.



IMPLEMENTATION AND PUBLIC



>> Planetarium show once a week;

>> Accompanied visits to the exhibition;

>> Audiences:

- regular attendance: non-visually impaired;
- -by special request: groups of visually impaired;

>> Age range;









FEEDBACK

1911, S.M. 191, STR. 57

>> Recollection of past memories;

>> Sense place in the solar system and the universe;

>> Touching the moon.

"Wow... I'm touching the moon...!"

"When I could see, I remember..."

"I always wondered what they meant by rings..."

"A comet... and it has a tail?!"







EVALUATION AND **CONCLUSIONS**

>> Feedback; >> Attendance; >> Legacy.

>> Expensive materials; >> Braille reading problems; >> Inclusion.









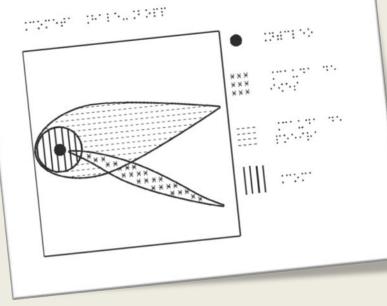


ONGOING PROJECT >> Build tactile images using low cost materials;

>> Dynamic interaction between visually impaired students and their non-visually impaired peers;

>> Explain scientific goals, reinforces the knowledge acquisition experience.







Lina Canas

Navegar Foundation / Europlanet, Portugal email: lina.canas@gmail.com

