



PLANMAP
Geologic Mapping of our Solar System

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Executive summary

The present deliverable provides the first 6 Flyers of the PLANMAP outreach program based on drawings and produced with the help of the editors and artists of the PLaNCK! Magazine for young students. The flyers have different fronts with illustration dedicated to diverse audiences being two illustrations for kids, two drawings presenting the main characters of a future comics on planetary geological mapping and two images illustrating a foreseeable near future of human planetary exploration. On the reverse of each flyer are short sentences recalling Planetary mapping activity. The flyers are downloadable from the PLANMAP web-site and can be used as book marks or cards. They will be also delivered during public events and conferences.



1. Introduction

Deliverable 8.3 is the first of a series of four dedicated to the PLANMAP outreach program based on drawings. The program is carried out by the UNIPD members and sustained by the editors and artists of the PLANCK journal for young students. The program will envisage at least up to 24 illustrations subdivided on the bases of the different scopes and audiences: 9 illustrations are dedicated to Kids and, although stand-alone, will be collected at the end of the project into an illustrated e-book; 9 of them will constitute a Comics series telling planetary geological mapping during the project development; finally 6 of them, that go under the name of Drawing the Future, will be used to populate the web-site and will depict how planetary exploration will be in the near future also thanks to PLANMAP products. Most of them will be delivered also as flyers on whose reverse side will appear sentences recalling the PLANMAP project activities. Particular attention will be paid to the geological features, planetary landscapes and field geology equipment drawn in each illustration. This deliverable presents the first 6 illustrations of each series and the sentences that will appear on their reverse sides.

2. Drawing for Kids

Kid illustrations will have the same character whose name is "Geolyn" and is the mascot of the entire project. The illustrations will show Geolyn in different stand-alone contexts related to planetary geology and exploration, but at the end of the project it will be discovered that a fantastic story of planetary geological mapping of Mars will be unveiled assembling the illustrations in the right chronological order (which is not the one of publication). For the moment Geolyn is depicted on top of an asteroid dreaming the working tools of a field geologist (Fig. 1) and within a space station looking at the Olympus Mons on Mars (Fig. 2).

The drawings have been made using acrylic, tempera and pencil colours on canvas.



Fig. 1 Illustration of Flyer 1: Geolyn on an Asteroid dreaming the field geology working tools (credits: Carlotta Montagna)



Fig. 2 Illustration of Flyer 2: Geolyn within a space station looking at the Olympus Mons (credits: Carlotta Montagna)



3. Drawing Comics

The comics will be a series of tables telling a planetary geology adventure of the characters Marie, Max, Plank and nanny Rose, already well known by the bilingual PLaNCK! Magazine (www.planck-magazine.it) audience made up of young girls and boys in scholarship age. The characters will be involved in a geological adventure that will start from a planetary geology museum and bring them up to the Moon. Each comic table will tell part of the story leaving the audience to wonder what is next, hence, unlike the Kid illustrations, the tables will appear in a strict chronological order. The final results will be downloadable from the PLANMAP web-site and will constitute part of a special issue of the PLaNCK! Magazine series. In the first two flyers the comic characters will be presented (Figs. 3 and 4).

Marie, Max and Plank have been modelled with pencil on paper, than imported to Photoshop for details and colours using graphic table Wacom. Original format is A5 (300 dpi).

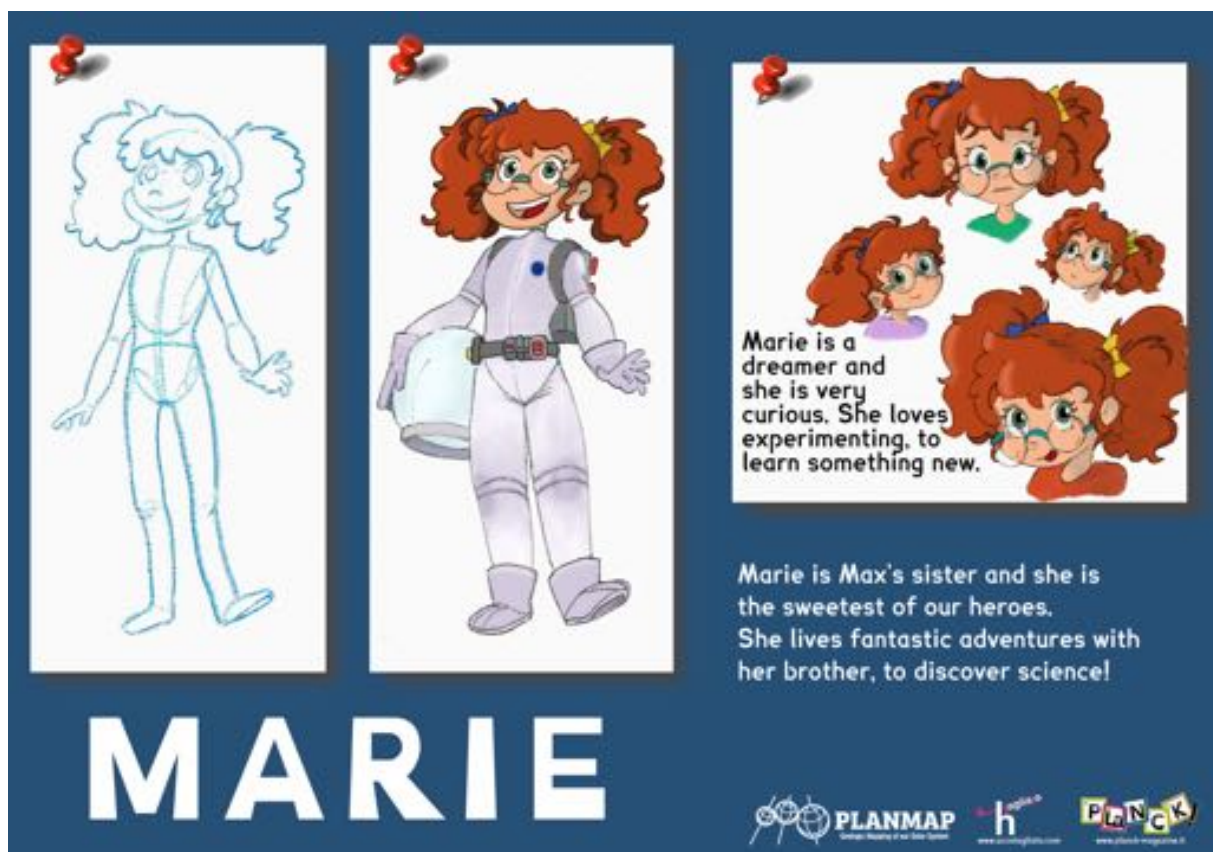


Fig. 3 Front of Flyer 3: Introducing Marie, character of PLaNCK! comics (credits: Bianca Maria Scotton).

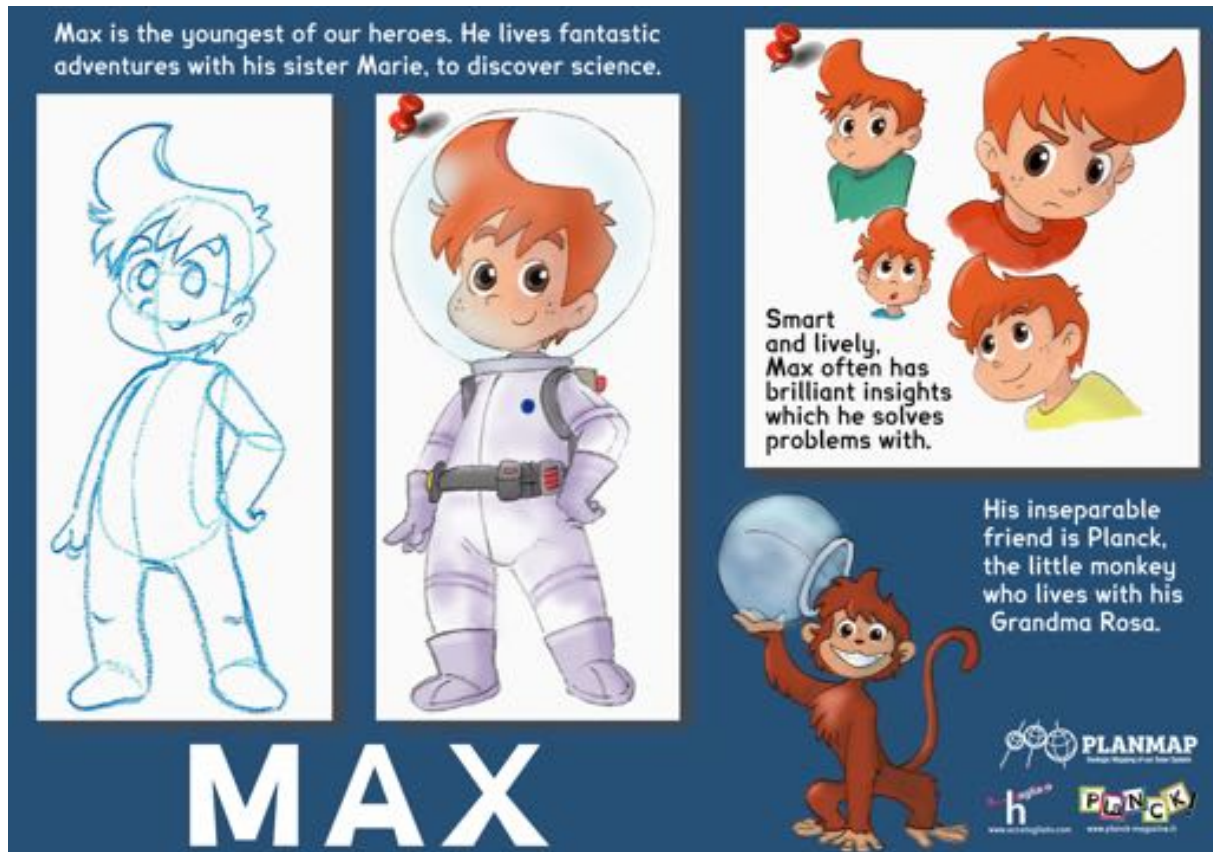


Fig. 4 Front of Flyer 4: Introducing Max and Planck, characters of PLaNCK! comics (credits: Bianca Maria Scotton).

4. Drawing the Future

In order to populate the web-site banner and attract students of the secondary school a series of illustrations will be dedicated to our near future when we will be able to explore Moon, Mars and Mercury, even using 3D geological sub-surface reconstructions. In substance these illustrations have the aim of showing the ultimate goal of PLANMAP project which, in our opinion, represents the first step towards such an effective way of planetary exploration and in situ exploitation.

Restriction related to the web-site banner and the landscape drawing forced us to select a long format which is perfect for using flyers as book-marks (Fig. 5).

The two first illustrations show respectively an astronaut in a light space suit which is able to visualize the subsurface geology of a Martian landscape (Fig. 6) and within a lava tube which could be either on Mars or the Moon (Fig. 7).

Drawing has been made through digital painting technique using Photoshop and graphic tablet, using real 3D geomodels, pictures of the martian surface from rovers and lava tube interiors and scans as reference.



Fig. 5 Example of how the flyer-book-mark front will appear at the web-site, ready to be downloaded.

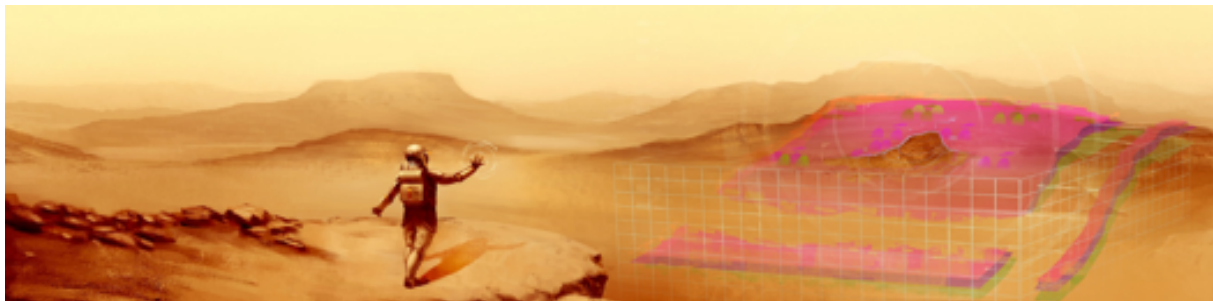


Fig. 6 Illustration of Flyer 5: Astronaut exploring a Martian landscape through a 3D geo-modelling device (credits: Jacopo Schiavo).

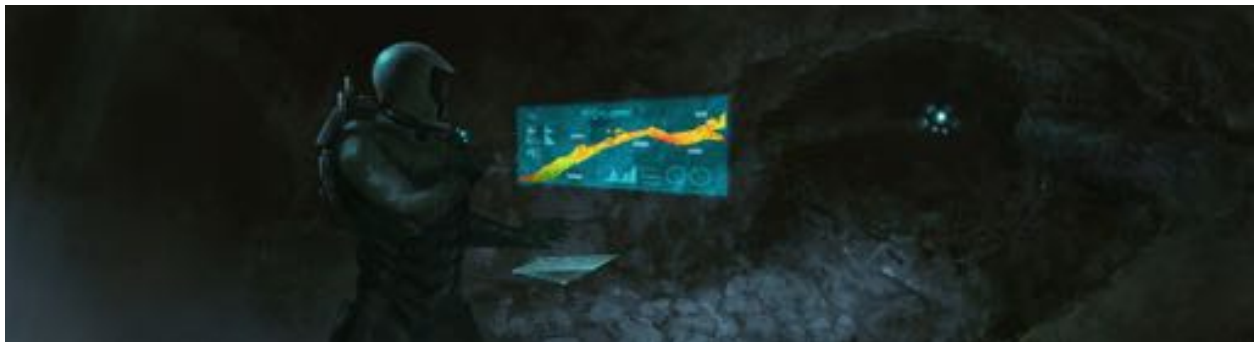


Fig. 7 Illustration of Flyer 6: Astronaut exploring a lava tube system on Mars or the Moon looking at a 3D subsurface reconstruction of a branching tube (credits: Jacopo Schiavo).

5. Sentences on the reverse side

On the reverse of each illustration will appear the PLANMAP logo and a sentence recalling PLANMAP activities and goals. At the moment the selected sentences are:

- Real and Virtual geo-worlds
- Geo-mapping other worlds
- Extrapolating deep planetary geology



- Scratching the surface with PLANMAP
- Seeking the subsurface with PLANMAP
- Exploring the surface and peeking beneath

6. Conclusion

The PLANMAP drawing program want to reach the young audience from kids to secondary school students. The program has envisaged dedicated approaches for the different ages by producing drawings for kids, comics and illustrations for young boys and girls. These products will be used to realize flyers as cards and book-marks that will be downloadable from the web and disseminated in conferences and public events. The first 6 flyers will be uploaded in the web-page and presented to the public during the European Researcher's night which will be held on 28 of September 2018.