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# The social network and the geo-hydrological information:

# the CNR IRPI Facebook® page as example of communication

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**SOURCES OF POSTS** 

Good communication is a fundamental step for the spread of news and knowledge. The effectiveness and persuasiveness of a message is a function of the interaction of characteristics of the audience, the source of the message, and content of the message. An official Facebook page of the Italian Research Institute for the Hydrogeological Protection was created. The purpose of this page is to disseminate information on flood and landslide events and on our research activities, in order to raise awareness of geo-hydrological matters among users. This page publishes news on current or historical landslide and flood events involving the Italian territory, or news from around the world collected on the network. The facebook page is also linked to other IRPI web site. To understand if people are engaging with the content Facebook provides insights about people's activity. This information is important to understand who visits the page and what contents are more interesting for the visitors. https://www.facebook.com/CNR.IRPI



Many posts published on the Facebook page IRPI are external links to **NEWS** published on the web (blogs, online newspapers, other research organizations). Significant news are chosen among those provided by the google

alerts service, that is daily checked to collect data and information on geo-hydrological events through the network. The news may consist on photos and videos but can also be links to articles related to landslides and flooding.



**GeomorphologicalWatch** is a collaborative (crowd) effort to collect information and data on where and when Iandslide, flood, and erosion events occur, or have occurred in the past. To contribute to this collaborative effort you do not need to be an expert in the field (i.e., a geologist, a geomorphologist, or an engineer), although this may help you to provide more detailed information, and may help us to obtain additional technical information on the event and its consequences. WWW.events.irpi.cnr.it

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**POLARIS**, POpulation at RISk from LAndslides and floods in Italy, collects data and historical information on polaris landslides, floods and other natural phe-

> nomena that have caused direct damage to the population (dead, missing, injured, evacuated). The web site POLARIS comprises four sections: Reports, Events, Focus and Blog. www.polaris.irpi.cnr.it.

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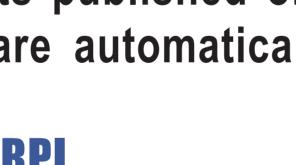
The **TWITTER** account linked to the Facebook page of the Italian Research Institute for the Hydrogeological Protection. The posts published on one of the two social platforms are automatically replicated to the other one.

https://twitter.com/CNR IRPI

The IRPI geomorphology website collects information on the research activities of the Geomorphology group at CNR IRPI

in Perugia. The researchers are focused on: landslide mapping, landslide inventories, models to produce susceptibility and hazard maps, rainfall and hydrological thresholds for possible landslide occurrence, rock fall modelling, remote sensing, dissemination of information on geo-hydrological hazards and risk. The web site collects publications, reports and scientific and media communications.

geomorphology.irpi.cnr.it









### FANS OF THE PAGE

The CNR IRPI official facebook page has been active since June 2013. Currently, the page has 291 fans. The curve in Figure 1 shows the cumulative number of fans (obtained without promotions with fee ) in the period chosen for the analysis (October 1 - April 16). A strong increase in the popularity of this page was recorded in the weeks between January 12 and February 4. In Italy, during this period, many events related to landslide risl occurred. The most notable were (a) the derailment of a train due to a landslide in Liguria (313 views) (b) a spectacular rockfall in Trentino South Tyrol (251 views), and (c) a flood in Sicily (153 views).

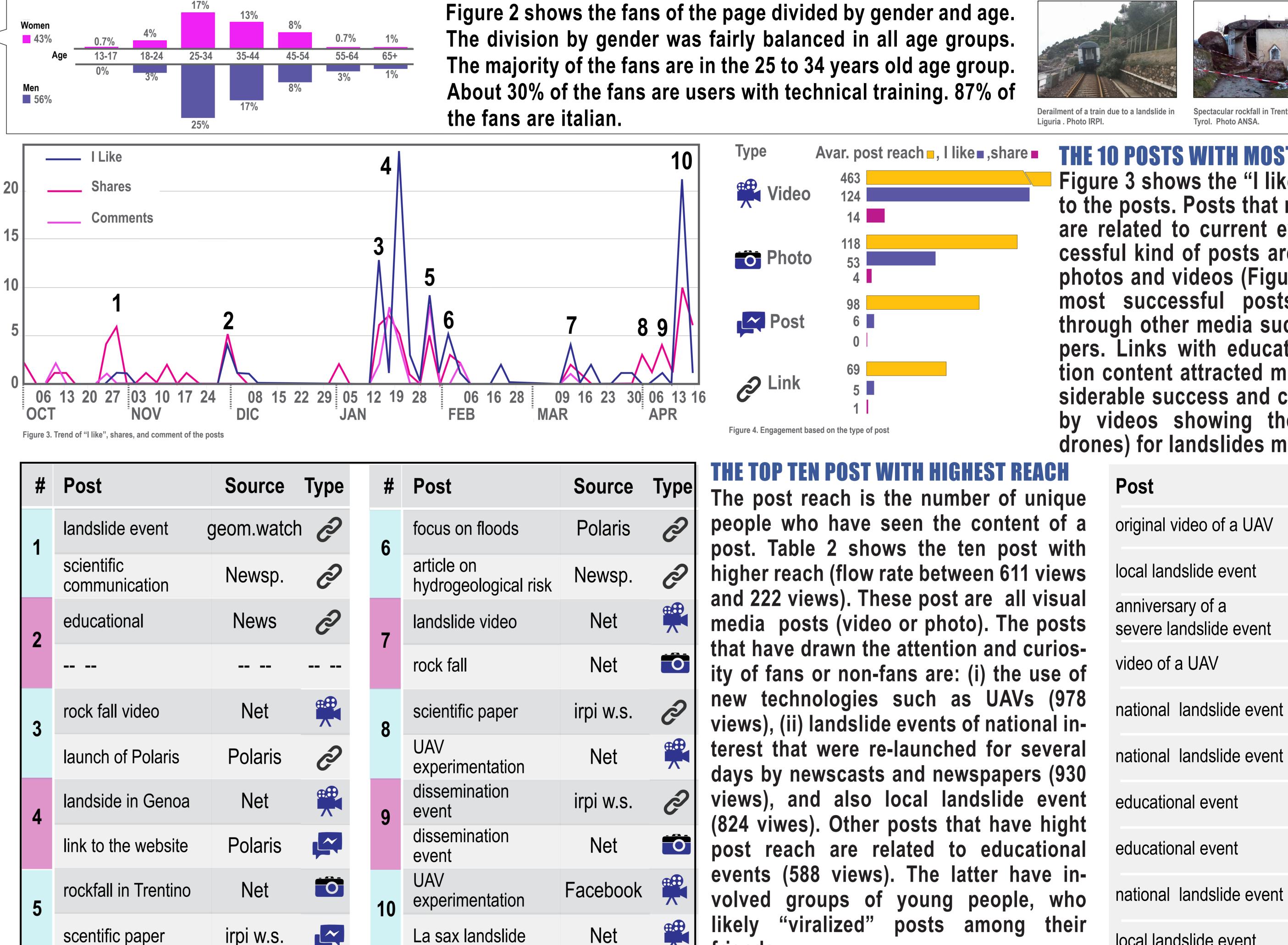
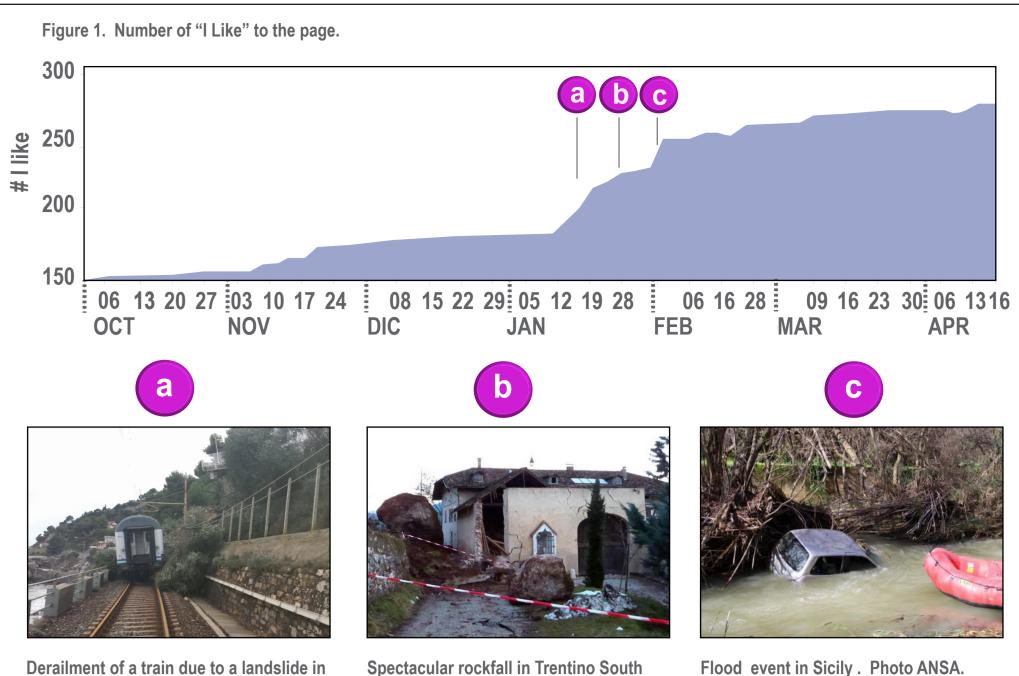


Table 1 . Content, type and source of the posts with the most likes and shares (figure 3)

#### CONCLUSIONS

Page Insights are useful to understand how people are engaging with the posts of the page. The analysis of the insights indicates which posts resonate with the audience of the page, and can be used to optimize how to reach more people. The analysis of the facebook page over the last six months shows that greater involvement of users occurred in the periods when significant landslide and flood events occurred in Italy. The public is interested in news supported by videos and photos. The flow of I like to the page shows a decline of attention or interest when events do not occur.



friends

**THE 10 POSTS WITH MOST LIKES AND SHARES** Figure 3 shows the "I like" and "shares" given to the posts. Posts that received most interest are related to current events. The most successful kind of posts are the ones containing photos and videos (Figure 4 and Table 1) .The most successful posts are those shared through other media such as TV and newspapers. Links with educational and dissemination content attracted moderate interest. Considerable success and curiosity was achieved by videos showing the use of UAVs (i.e. drones) for landslides monitoring.

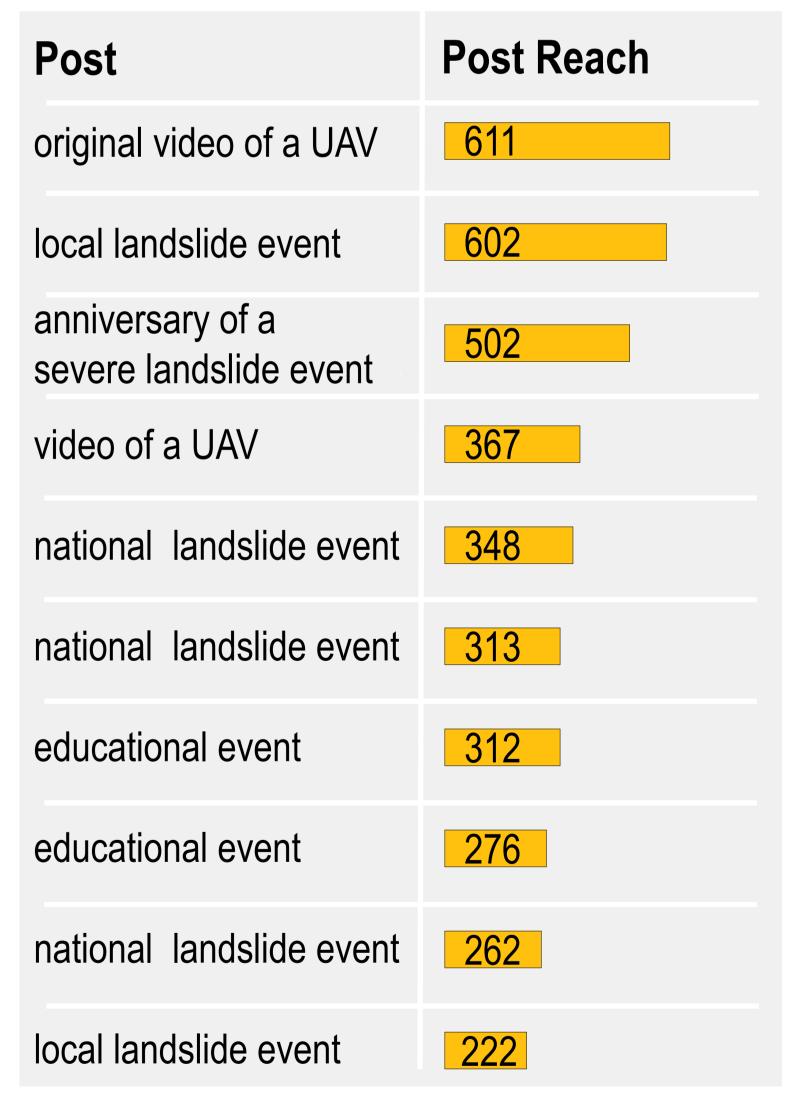


Table 2. Ten posts with highest reach

