**PERSPECTIVE PROJECTION** = a special type of a central projection with properties suitable for the human eye
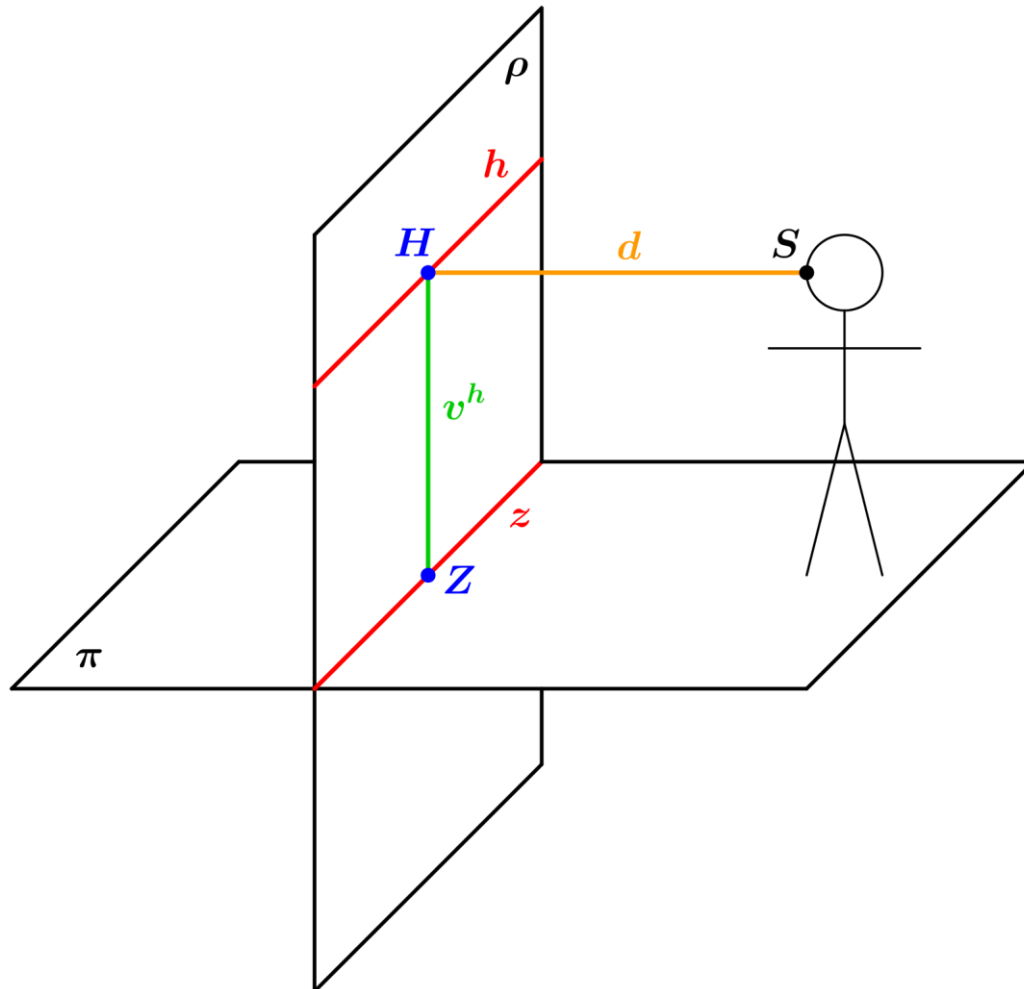
→ *Perspective (picture) plane* $\rho$, *centre of projection* $S$



- *Ground plane* $\pi$ – plane perpendicular to the perspective plane … earth´s surface
- *Principle point* $H$ – an orthogonal projection of the centre into perspective plane
- *Ground line* $z$ – the intersection line of perspective plane and groud plane
- *Horizon* $h$ – the intersection line of perspective plane and a horizon plane (contains the centre of projection and is parallel to the ground plane) = a line passing through the principle point and parallel to the ground line
- *Ground point* $Z$ – an orthogonal projection of the principle point to the ground plane (→ is on the ground line)
- *Distance* $d$ – a distance between the centre and the perspective plane, $d = |SH|$
- *Height of horizon* $v^h$ – a distance between the ground line and the horizon, $v^h = |HZ|$

- *Depth line* – a line perpendicular to the perspective plane
- *Vertical line* – a line perpendicular to the ground plane