Let $X$ be a complex manifold, $Y$ be an open subset of $X$ and let $\phi$ be an upper semicontinuous function on $Y$. Consider the space $H(X, Y)$ of all analytic disks in $X$ whose boundaries lie in $Y$. On this space we introduce an equivalence relation: two analytic disks are equivalent if their centers coincide and they can be connected by a continuous curve in $H(X, Y)$. We show that on the set $Y'$ of equivalence classes there is a local homeomorphism $\rho$ into $X$ that defines on $Y'$ a structure of a complex manifold.

We define the relative disk envelope of $\phi$ on $X$ as the infimum of the integrals of $\phi$ over the boundaries of all analytic disks in $H(X, Y)$ with centers at $z_0 \in X$ and boundaries in $Y$. As the result we get a function on $Y''$ which is plurisubharmonic. This approach immediately generates many geometric questions that will be also discussed.