

	Engagement		GH2Highway: Green Hydrogen highway between Europe and Africa					
	Countries	Project value (€)	% by EPSILON	€ by EPSILON	Engagement	Funding by	Date	Partners
	GR, RO, ES, TR, LY, MZ, RW, BG, HU, IT, TR, NG	140.000	4,7%	2.997.638	HORIZON	EU	30.05.2022	ATHENA, ERFC, ICSI, ICPE-CA, BEIA, ITECAM, TENMAK, PARGETTO, REAOL, LCOGRE, Quelimane, MBBU, AESG, INES, WTech, FUDA, ECC, UNIMORE, EPSI, YTU, LAPGS, Natural Eco
Description					Outcome			
For Europe, the green hydrogen shall consist of hydrogen produced in Europe, complemented by hydrogen imports, especially from the African continent. Hydrogen produced in Africa will be beneficial for both Europe and Africa. A bold energy sector strategy with an important infrastructure component is suggested, which differs from more traditional bottom-up sectoral strategies. The GH2Highway approach guaranteed optimized use of (existing) infrastructure, had low risk and cost, would improve Europe's energy security and supports European technology leadership. In Africa it would foster economic development, boost export, create future-oriented jobs in a high-tech sector and support social stability. A joint hydrogen strategy between Europe, and Africa can help build a European energy system based on 50% renewable electricity and 50% green hydrogen by 2050. Shaping the rules, standards and governance of hydrogen could lead to geopolitical competition or open a new era of enhanced international cooperation.					To achieve the project objectives, EPSILON and the Consortium proposed to: • Deliver public subsurface technical developments for pure hydrogen storage in depleted fields or aquifers: Improve geological characterization at large scale and build / consolidate / mature a database of storage opportunities in the targeted countries. • Provide techno-economic insights on hydrogen storage, infrastructure deployment and H2 electrolysis in the Europe- Africa energy system • Assess, simulate and visualize data for techno-economic feasibility of implementing hydrogen storage, infrastructure and supply chain in targeted countries at regional /transnational level through • Develop an ecosystem between the different actors (researchers, industrial organisations, financial institutions, investors, policy makers and advocating NGO's			
								