

## **SingularityNET to port a portion of its network to Cardano blockchain**

- SingularityNET Foundation is working with IOHK to port a significant portion of the SingularityNET decentralized AI network to Cardano's blockchain
- The move is driven by the speed and cost issues with the Ethereum blockchain, and the lack of clarity around the Ethereum 2.0 rollout
- Recent developments in Cardano such as the successful delivery of Shelley, continued decentralization and Goguen functionality starting to roll out mean that the blockchain is mature enough to port a complex blockchain application like SingularityNET onto it

**Wednesday Sept. 30th:** SingularityNET Foundation and leading blockchain research and development company IOHK, today announced that they are planning to port a significant portion of the SingularityNET decentralized protocol and platform from Ethereum to Cardano.

This would involve providing mechanisms for swapping some of the current (Ethereum-based) ERC-20 AGI tokens to Cardano-based AGI tokens, and also creating analogues of the Solidity smart contracts underlying aspects of the SingularityNET platform using Cardano's new Plutus smart contract language.

**Dr. Ben Goertzel, CEO & Founder of the SingularityNET Foundation, said:** *“Current speed and cost issues with the Ethereum blockchain have increased the urgency of exploring alternatives for SingularityNET's blockchain underpinning. The ambitious Ethereum 2.0 design holds promise but the timing of rollout of different aspects of this next-generation Ethereum remains unclear, along with many of the practical particulars.”*

Cardano's consensus mechanisms and associated algorithms and structures comprise a unique mix of rigorous theoretical grounding and practical scalability, and have now reached a level of maturity that makes it possible to port a complex blockchain application like SingularityNET to Cardano.

*“Cardano's thoroughly formalized functional programming foundations have potential to provide a rich and flexible basis for implementing advanced aspects of the SingularityNET design — but*

*just as critically, they have strong promise to provide a secure and reliable basis for the network's operations basic and advanced alike.”* continues Dr. Goertzel.

**Charles Hoskinson, CEO of IOHK and Cardano founder, added:** *“Cardano has gone from strength to strength this year, and having the backing of such a prominent organisation only reaffirms this. SingularityNET is a project we've followed for a long time, and we're excited to see how the Cardano blockchain can help SingularityNET realise its ambitious goals.”*

Currently the SingularityNET platform is primarily used for hosting relatively simple AI agents that provide practical services directly to end users, e.g. in areas such as image processing, natural language processing, time series analysis, genomics data analysis and more. Through the Android SDK the SingularityNET protocol has been used on the back end of smartphone apps like the recent SongSplitter app that separates vocals from music in audio files.

However, the broader vision of SingularityNET relies on taking things a step further and using the platform to host a rich variety of AIs that outsource work to other AIs, and dynamically collaborate with other AIs to solve problems. The deep technical synergies between the SingularityNET and Cardano designs have potential to accelerate realization of this vision.

An in-depth review of some of the motivations, synergies and possibilities underlying the SingularityNET/IOG partnership can be found in this video between Hoskinson and SingularityNET CEO Dr. Ben Goertzel, which occurred recently at the Wyoming Blockchain Hackathon in Laramie, and also in Dr. Goertzel's [talk at the Cardano Summit](#) earlier this year.

## **About SingularityNET**

SingularityNET is a full-stack AI solution powered by a decentralized protocol. SingularityNET's core goal is to provide an intelligent fabric for AI algorithms to talk to each other — and in doing so, to provide both a teeming commercial marketplace for advanced AI solutions across vertical markets and the basis for the emergence of the world's first true Artificial General Intelligence. The SingularityNET founders believe in open source and decentralized control, so that no single individual, corporation, or government will be able to dominate AI as it becomes increasingly more generally intelligent and capable. The project gathered the leading minds in machine learning and blockchain to democratize access to AI technology.

## **About IOHK**

IOHK is an R&D and product engineering company, committed to using peer-to-peer innovations to provide 21st century services to the 3bn who don't have them.

We build blockchain based products for governments, corporations and academic institutions and upskill people across the world, empowering them to solve the most pressing problems faced by people in their countries.

We have core beliefs in decentralization, the right to privacy and stand opposed to centralized control and bureaucracy.

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