

## HPB IN A NUTSHELL

HPB is a revolutionary permissionless blockchain architecture aiming to solve today's Blockchain shortcomings through a unique combination of dedicated hardware and software:

- **Hardware:** The Blockchain Offload Engine (BOE) is a dedicated chipset built for high transaction speeds, low latency, increased security and decentralization. The BOE can also be used in a DApp's processes, such as utilizing the hardware random number generator for item drop rates in games
- **Software:** High-performance architecture using the unique multivariable Proof of Performance consensus algorithm (PoP)

## THE BLOCKCHAIN OFFLOAD ENGINE (BOE)

Revolutionary performance and high concurrent computing acceleration through:

- Streamlined processes by harmonization of hardware, firmware and software
- Combined serial capabilities of the CPU and the parallel processing capabilities of Field-Programmable Gate Arrays (FPGA)/ASIC chips

## GOVERNANCE

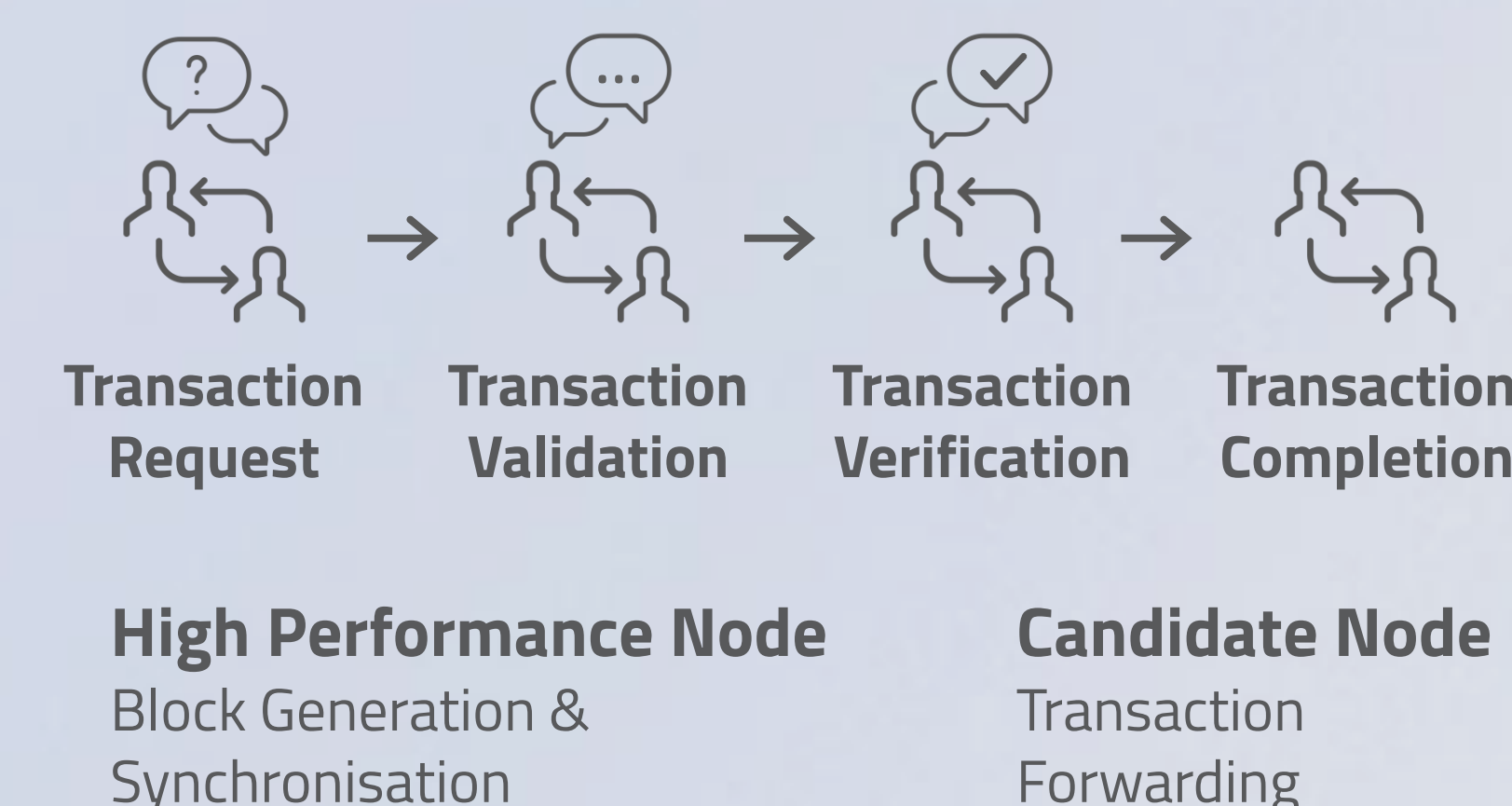
- **Truly decentralized and stable** using a high number of globally distributed and constantly changing nodes, each utilizing the BOE
- **Highly effective** via the Proof of Performance consensus algorithm (PoP) which is based on the performance contribution of each node

## SUPERIOR SECURITY

- **Blockchain native security** features
- **Enterprise level** digital signature verification and signature verification speed
- **Secure data transmission** using hardware random number generation encryption between nodes

## BOE APPLICATION

Blockchain transactional workflow accelerated by HPB's unique solution



## SUPERIOR PERFORMANCE

- **Fastest Blockchain convergence** through block data fragmentation broadcast processing for newly created blocks
- **Superior network performance** utilizing High-Performance nodes
- **Reduced response times and accelerated network speeds by factor 100**, parallelizing functions such as transaction data or confirmation broadcasting

## ECO-FRIENDLY

- **Very low electricity consumption** due to the utilization of the unique synergies achieved by the combination of hardware and software

