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| **Epic Name:**  Blockchain e-voting service | | **Funnel Entry Date:**  20/04/2023 | | | | | | **Epic Owner:**  Craig Dillon |
| **Epic Description:**  **For:** TU Dublin, HEAnet client base  **Who:** Educational institutions  **The:** E-voting service with portal  **Is a:** Blockchain based voting service  **That:** Provides security, trust and accessibility for elections  **Unlike:** Traditional voting methods  **Our solution:** Provides a modern solution that is available remotely, is secure, has a clear audit trail and provides real time insights | | | | | | | | |
| **Business Outcome Hypothesis:**   * Greater accessibility * Improved trust in electoral system * Reduced cost of running elections * Results released quickly | | | | | **Leading Indicators:**   * Increased turnout * Successful election cycle * Positive response from students * Other institutions wish to avail of service | | | |
| **In Scope:**   * Portal for candidate information * App for mobile & web * Secure voting platform * Real time metrics & results | **Out of Scope:**   * Voter registration * Campaign management * Ballot design | | | | | **Nonfunctional Requirements:**   * ISO and GDPR compliance * SLAs * Security testing | | |
| **Minimum Viable Product (MVP) Features**   * Web portal * Mobile app * Anonymous voting * STV & FPTP voting method * Tally results | | | | **Additional Potential Features**   * Real time metrics * Browser app for desktop/laptop * Additional voting methods | | | | |
| **Sponsors**:  HEAnet board  HEA  TU Dublin  PMO  Technical Services Director | | | | | | | | |
| **Users and Markets Affected**:  Students  Student Union candidates  Wider higher education community  Educational sector | | | | | | | | |
| **Impact on Products, Programs, Departments and Services**:  Election organisers  Student unions  Elections  Students | | | | | | | | |
| **Impact on Sales, Distribution, Deployment**:  Distributed remotely  Deployed on EBSI blockchain  HEAnet hosting nodes for EBSI to contribute to blockchain network resilience | | | | | | | | |
| **Analysis Summary:** The proposed solution provides the client with an e-voting solution that meets their requirements. It can provide accessibility, security, cost savings, privacy and transparency in a trustworthy system. | | | | | | | | **Go / No-Go:**  Go |
| **Estimated Story Points** (MVP): Based on fibonacci sequence, 56 points | | | **Estimated Monetary Cost (MVP):** €500,000  €8,928.50 per story point | | | | | |
| **Type of Return:** Requested service provided to stakeholder | | | **Anticipated Business impact**: Service that can be offered to other clients, potential for different services to be built on the framework | | | | | |
| **In-house or Outsourced Development**: In house | | | | | | | | |
| **Estimated Development Timeline:** 18 months | **Start Date:**  01/08/2023 | | | | | | **Completion date:**  04/02/2025 | |
| **Incremental Implementation Strategy**: Architectural effort precedes business functionality by one program increment. | | | | | | | | |
| **Sequencing and Dependencies:**  Training, discovery and decisions around compliance standards come before anything else.  Dev/staging environment stood up before development.  Ensure regular communication with all involved to manage overlapping tasks and changes. | | | | | | | | |
| **Milestones or Checkpoints**:  Training completed, general product design agreement, developed MVP, compliance & testing complete, deployment, post-deployment feedback and improvement | | | | | | | | |