Phoenix BIOINFORMATICS

2023 – 2027 Strategic Plan

Phoenix Bioinformatics

is a trusted nonprofit 501(c)3 corporation that combines its scientific, technical, and sustainable funding expertise with infrastructure engineering, sales capability, and marketing support.

Mission

Phoenix Bioinformatics advances high quality and financially sustainable digital research resources used by the scientific community to benefit society.

Vision

We envision a future in which a thriving and diverse ecosystem of digital research resources is responsive to the needs of researchers and society, and is sustained by a range of funding models.

Core Strategies:

Investment in *DRRs that is guided and supported by their user communities.

Scientific capabilities
We will invest in Phoenix Bioinformatics' ability to support the research community across its DRRs through new tool development, continued knowledge curation, infrastructure improvement, and end-user training. Changes implemented will include development and deployment of tools to advance knowledge discovery and curation.

Community engagement
Phoenix will rely on the expertise of in-house scientific staff while facilitating and recognizing contributions by community members. For community contributions, Phoenix Bioinformatics will advance the ease of user contributions and incentivize users to contribute data. We strive for open, community-led science operating through the Collective Benefit, Authority to Control, Responsibility, and Ethics (CARE) and Findable, Accessible, Interoperable, and Reusable (FAIR) principles.

Technological capabilities
We will invest in understanding the technological abilities and needs of the various stakeholders in both Phoenix's in-house and partner DRRs through both the analysis of existing data and the generation of new information. We will advance insights on the resources under Phoenix's umbrella to better serve the research community. This broad community-informed strategy will guide focused improvements in Phoenix DRRs in the areas of decentralization, scalability, reliability, and where possible, interoperability.

Investment in user-backed funding models and the technology that underpins them.

Community engagement
Phoenix Bioinformatics will foster applied understanding of user-backed funding models through providing materials, services, tools, and training. We will expand understanding of the constraints, requirements, and scales of different user-backed funding models through developing, identifying, and sharing lessons and results. We are committed to raising the awareness of the research community to these funding models, supporting their exploration of funding models for specific DRRs, and facilitating successful implementation of user-backed funding models for partners.

Technological capabilities
We will invest in (a) deepening expertise and services for access management and (b) developing an adaptive, standardized, networked platform for DRRs. Backend systems will support interconnectivity and standards compliance while allowing technological advancement and user- or discipline-specific customization. The expanded expertise and services for DRRs seeking financial sustainability solutions will draw additional partners into the expanding Phoenix ecosystem where high quality and valued DRRs can flourish and grow.

***DRRs (Digital Research Resources)** – organized and curated collections of data or information and associated services, tools, or workflows for analyzing, archiving, creating, searching, sharing, and transforming research outputs that can be accessed electronically.*