

Protecting the Value of Your Software

FLC Far West / Mid-Continent Regional Training Meeting

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We Develop Technologies to Address National Needs

Border Security

National Defense

Opioids

Law Enforcement

Childcare

Veterans' Healthcare

Emerging Technologies that Support the Industries of the Future

Workforce Development

Rebuilding the Nation's Infrastructure

Addressing High Drug Prices

Extracted from the proposed Budget of the U.S. Government, Fiscal Year 2020. <https://www.whitehouse.gov/omb/budget/>



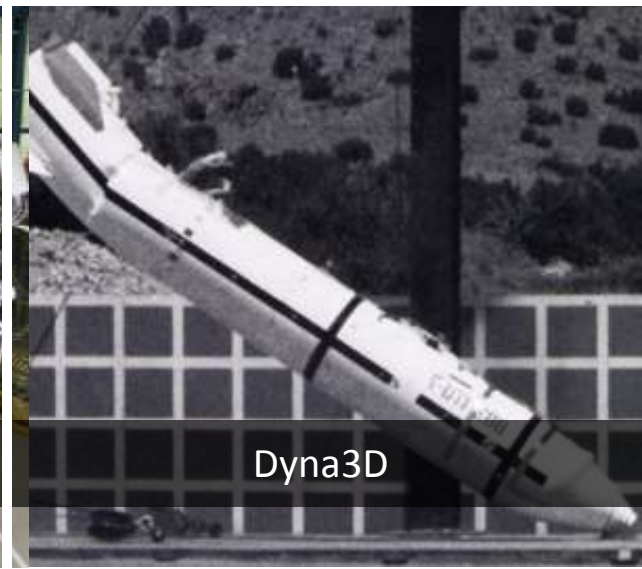
We Create Software to Address National Needs



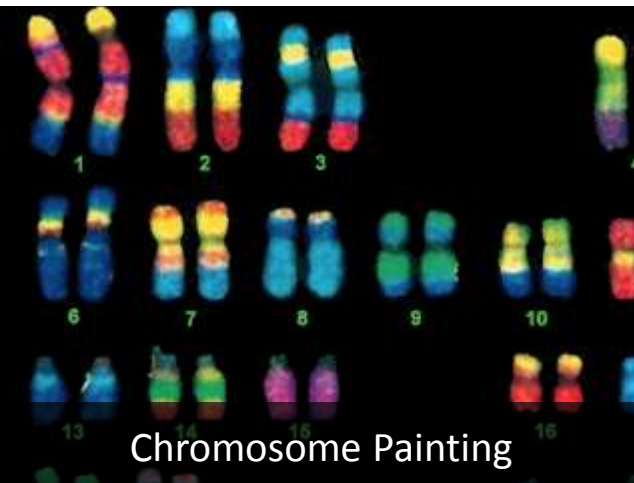
Plastic Radiation Detectors



Laser Peening



Dyna3D



Chromosome Painting



Artificial Retina



Microbial Detection Array

LLNL Real-world solutions



Software is Valuable and Protectable



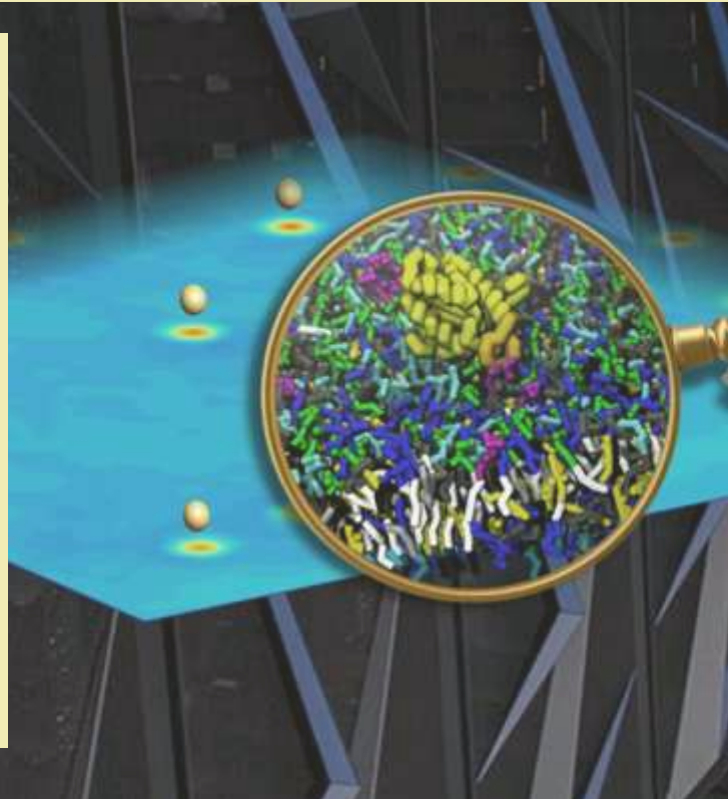
Successfully transferring software requires understanding the value of your assets in the market

Science Markets

When the Value is in Scientific Advancement

Key Factors:

- Publication timing is critical
- Research community may need your software to advance or validate the science
- Intellectual Assets may be publications, inventions, software, and datasets



Tools:

- Open Source Software Licenses
- Noncommercial Research licenses
- Provide Digital Object Identifiers and “How to Cite” guidance
- Creative Commons licenses for data

LLNL researchers, along with scientists from Los Alamos National Laboratory, the National Cancer Institute and other institutions, are using machine learning as a virtual magnifying glass to study interesting regions of RAS protein/lipid simulations in higher detail.
Credit: Tim Carpenter/LLNL



Science Markets

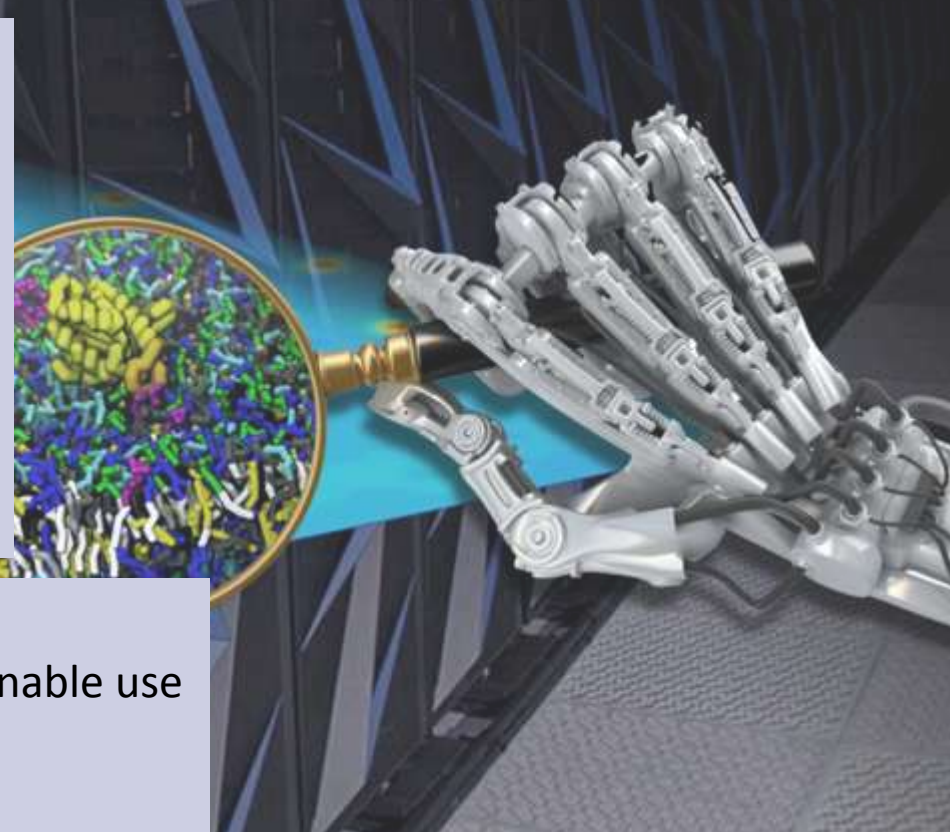
When the value is in the research tool:

Key Factors:

- Tools need to be trusted, supported, available and maintained
- Investment is needed – and may be costly depending on the tool
- Intellectual Assets may be inventions, software, example datasets, manuals, training presentations, materials, etc.

T2 Tools:

- Partnerships to mature technologies and enable use
- Engaged open source communities
- Commercial Licensing



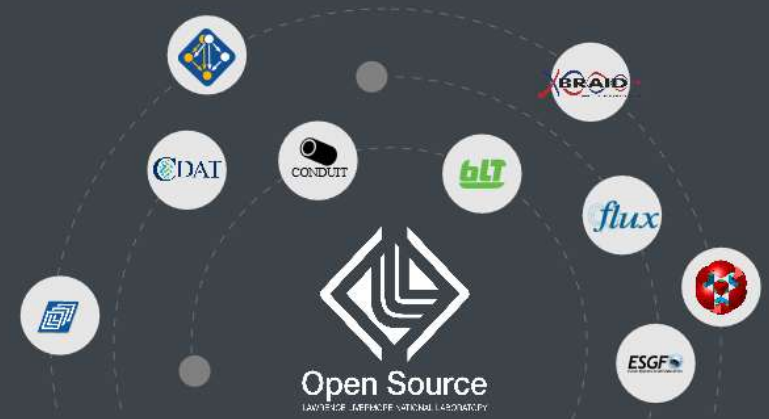
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Open Source Software Markets

When the value is in the community:



Key Factors:

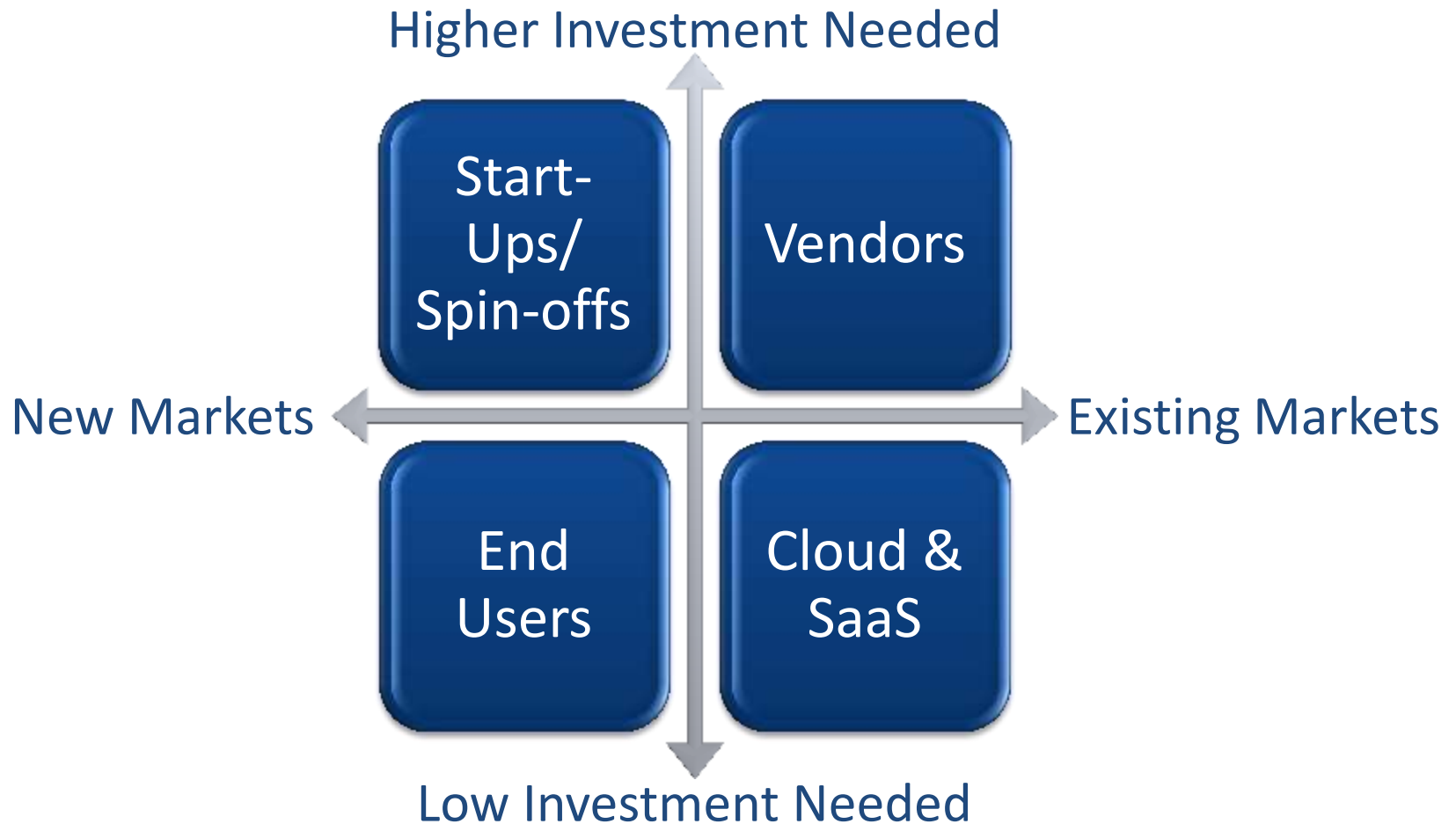
- The source code is the intellectual asset
- Patents may be impacted
- Support can come from the community or from commercial vendors
- Building the community takes time and commitment

T2 Tools:

- Open source software licenses
- Release to the Public Domain
- Partnership agreements for development and support

Product Markets

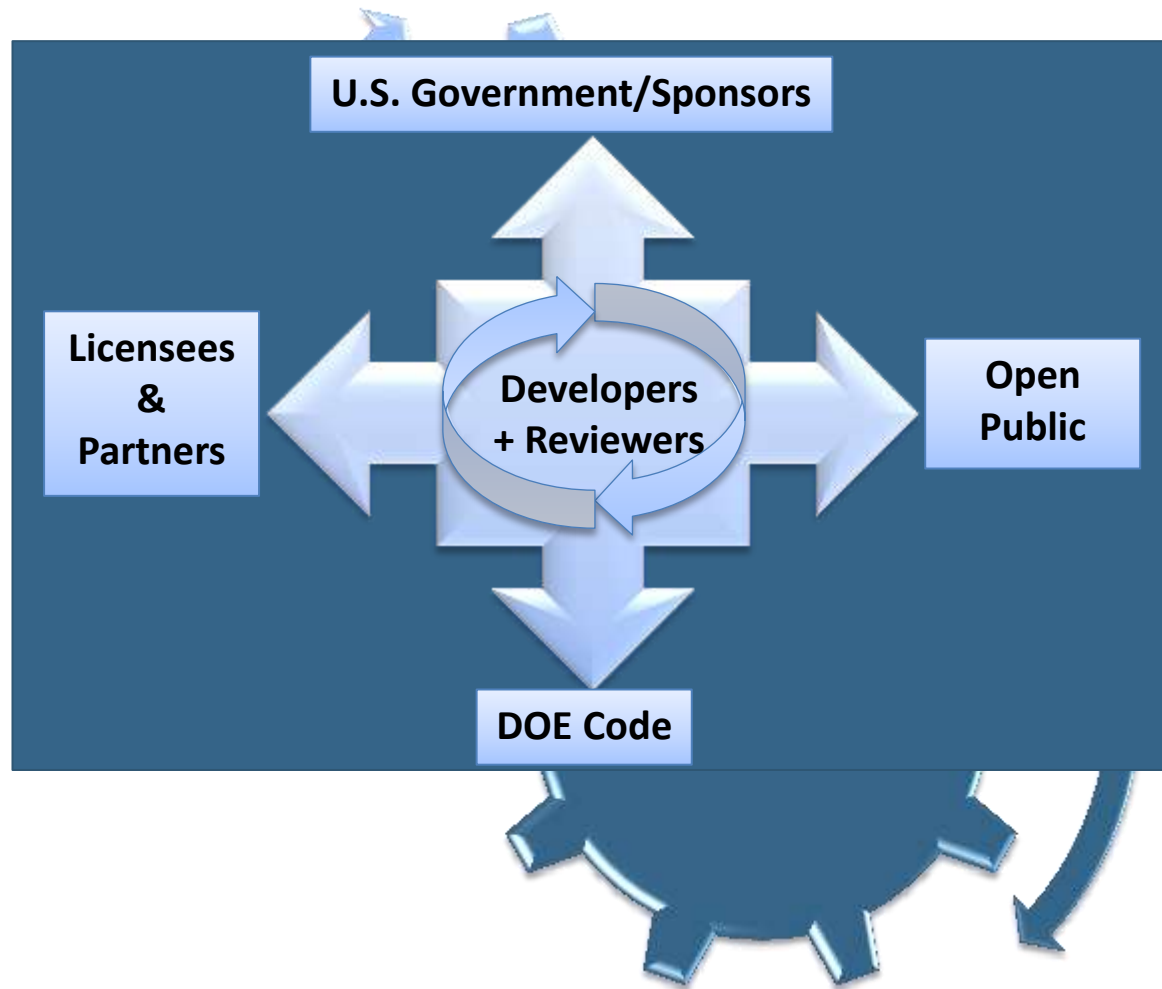
When the value is in a product:



A Brief Word about Process and Criteria

Considerations

- Technology Readiness
- Classification Levels
- Export Controls
- IP Ownership
- Dependencies
- Customer & Partner Interests
- Key Market Factors



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A Few Resources

- Federal Laboratories Consortium: <https://www.federallabs.org>
- Code.gov Website: <https://code.gov/>
- LLNL's open source software portal: <https://software.llnl.gov/>
- List of common open source software licenses: <https://opensource.org/licenses>
- List of common open licenses for non-software data: <https://creativecommons.org/share-your-work/licensing-types-examples/>
- Licensing Executives Society: <https://www.lesusacanada.org/>
- AUTM: <https://autm.net/>

