

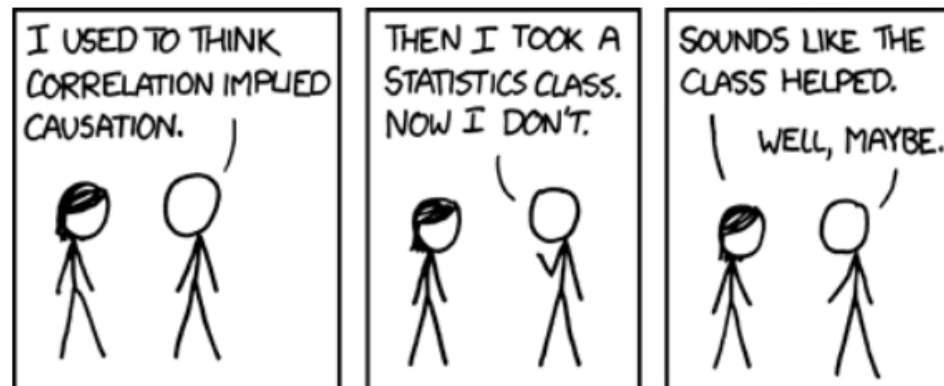


Laura Williams

- Senior Statistical Programmer/Biostatistician
- BS and MS in Bioengineering and MAS (Master's of Applied Statistics)
- 9 years of industry experience

Hunter Vega

- Principal Statistical Programmer/Project Manager
- BS in Public Health – Biostatistics
- 12 years of industry experience



(<https://xkcd.com/552/>)

Paper SP01

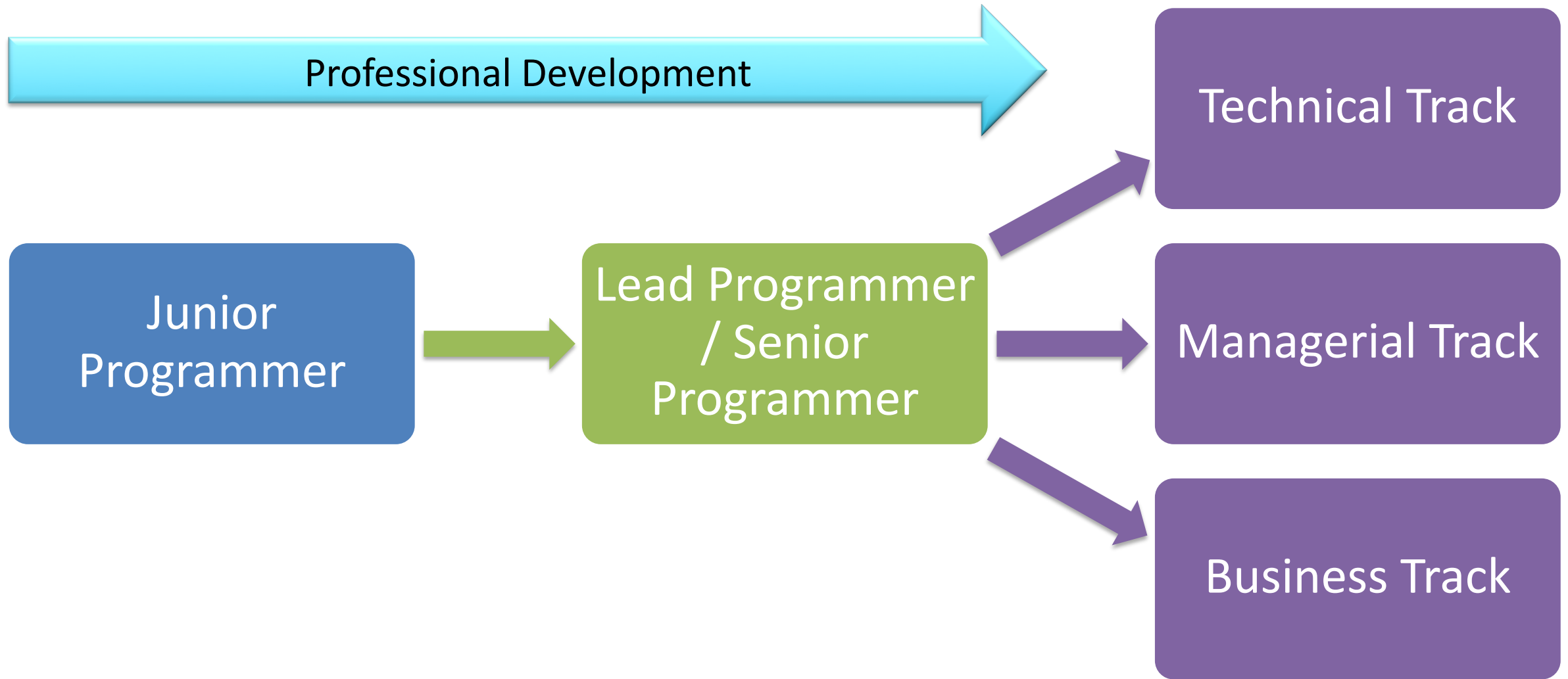
Dual Roles: I'm not just a programmer!

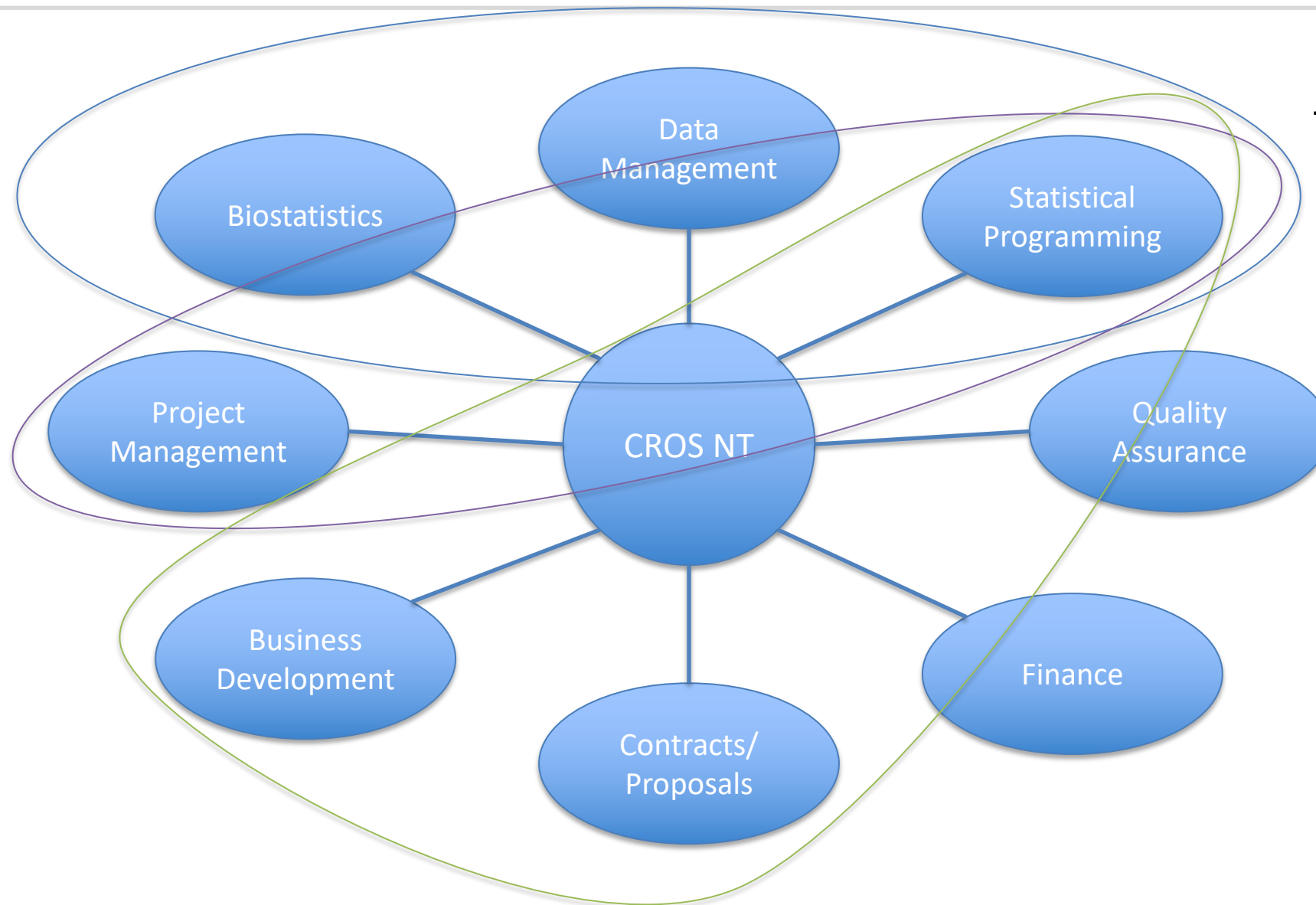
PhUSE US Connect 2020





- Introduction
- Developing into a Lead Programmer
- Expanding Your Role
- Statistical Programmer ↔ Biostatistician
- Statistical Programmer ↔ Project Manager
- Challenges
- Conclusion

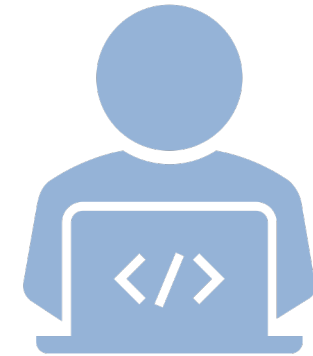




Technical
Managerial



- What makes a good lead statistical programmer?
 - Technical programming knowledge
 - Timeline and team management
 - Communication skills
 - Ability to mentor junior/on-role programmers



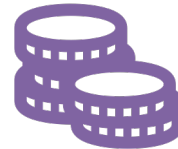


- New Responsibilities/Ideas Valuable Experience

- Experienced programmers may be consulted for proposals for new work



Strategy



Budget



Resources

- Research & Development of new tools and processes may result in demonstration of this product for prospective customers



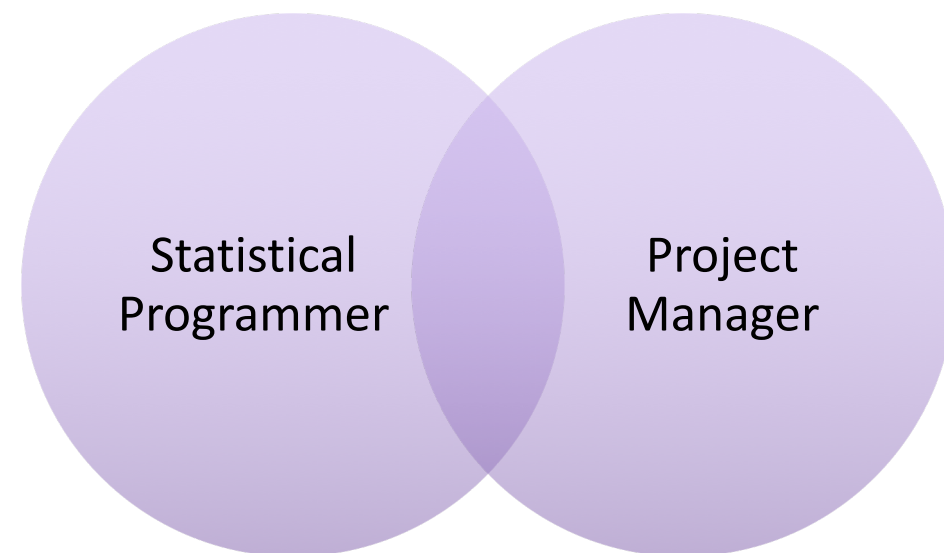
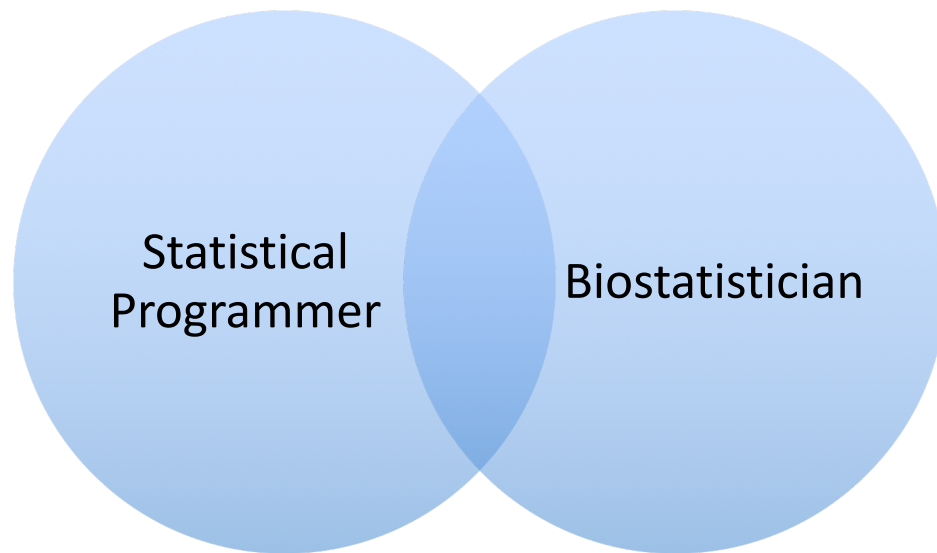
Critical Thinking / Problem Solving

Communication / Public Speaking



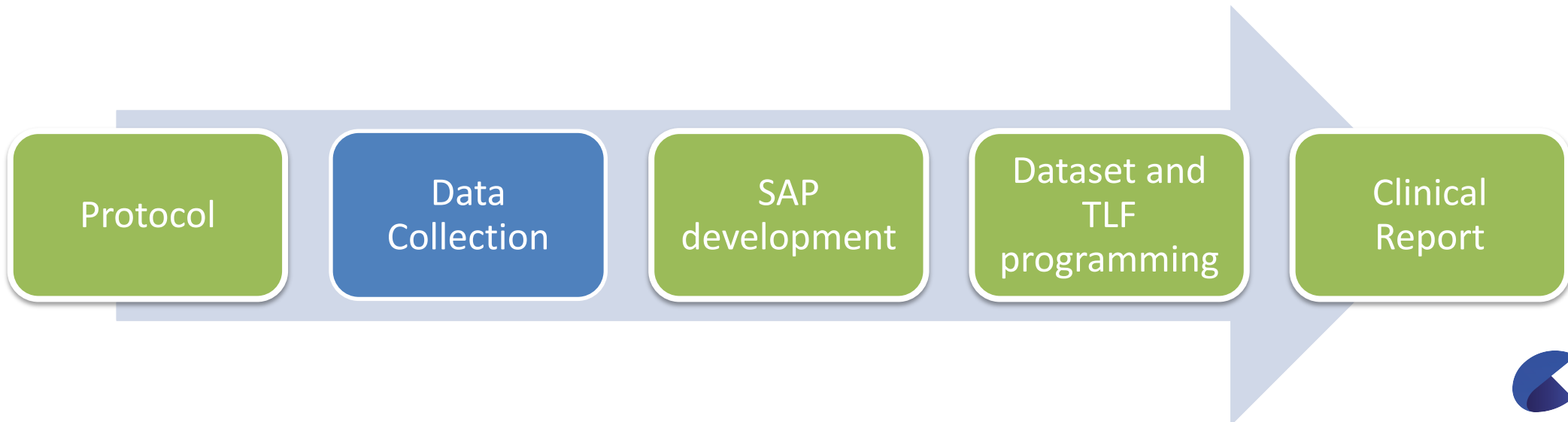


- Interactions with other functional departments may lead to interest in collaborating more with those departments
- In our cases, we were offered the opportunity to take on a dual role with responsibilities from two operational departments



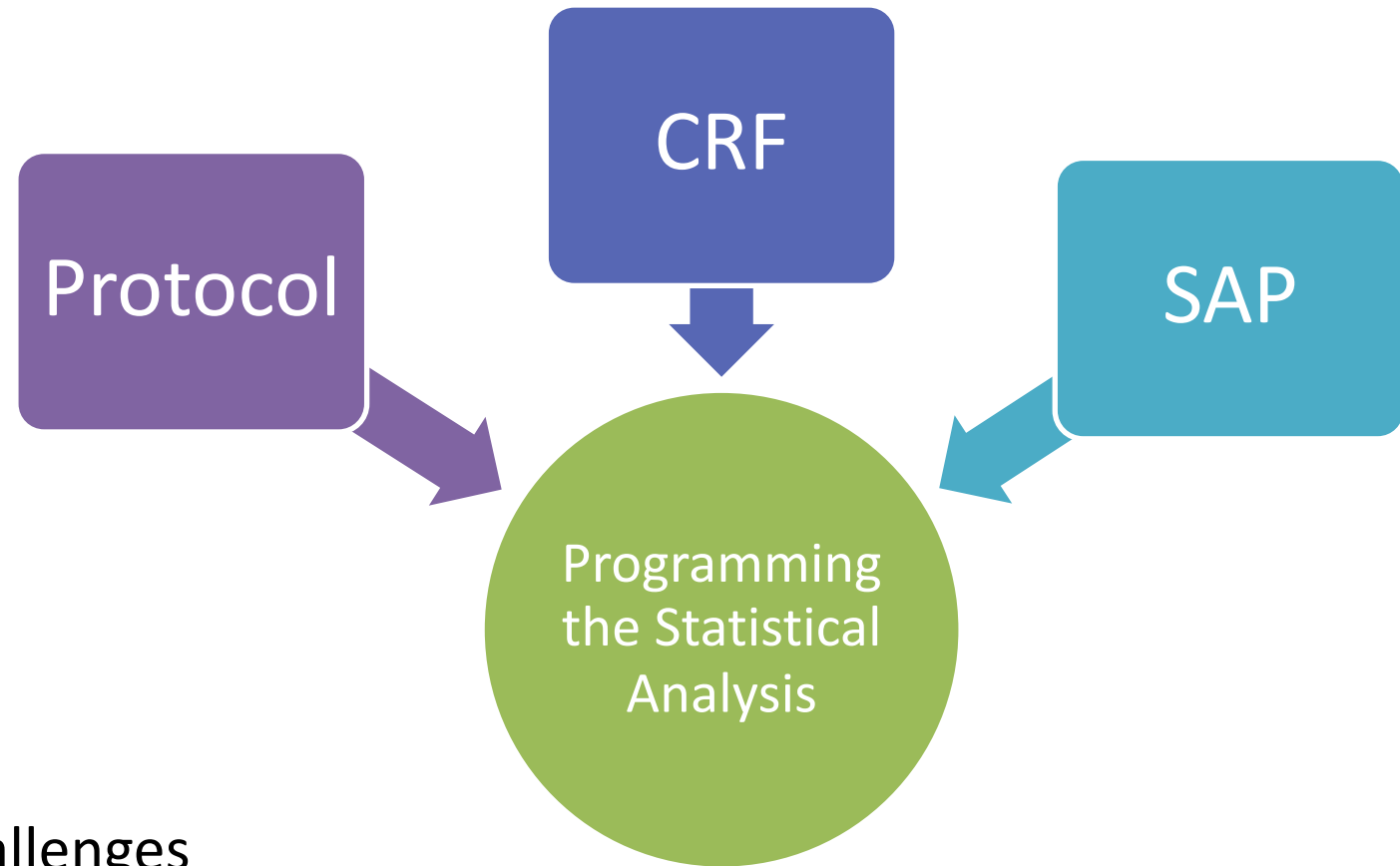


- Overlapping Skills: Statistical Programmer to Biostatistician
 - Technical resource
 - Programming knowledge
 - Regulatory requirements
 - Study documentation
- Involvement in additional steps in the project process





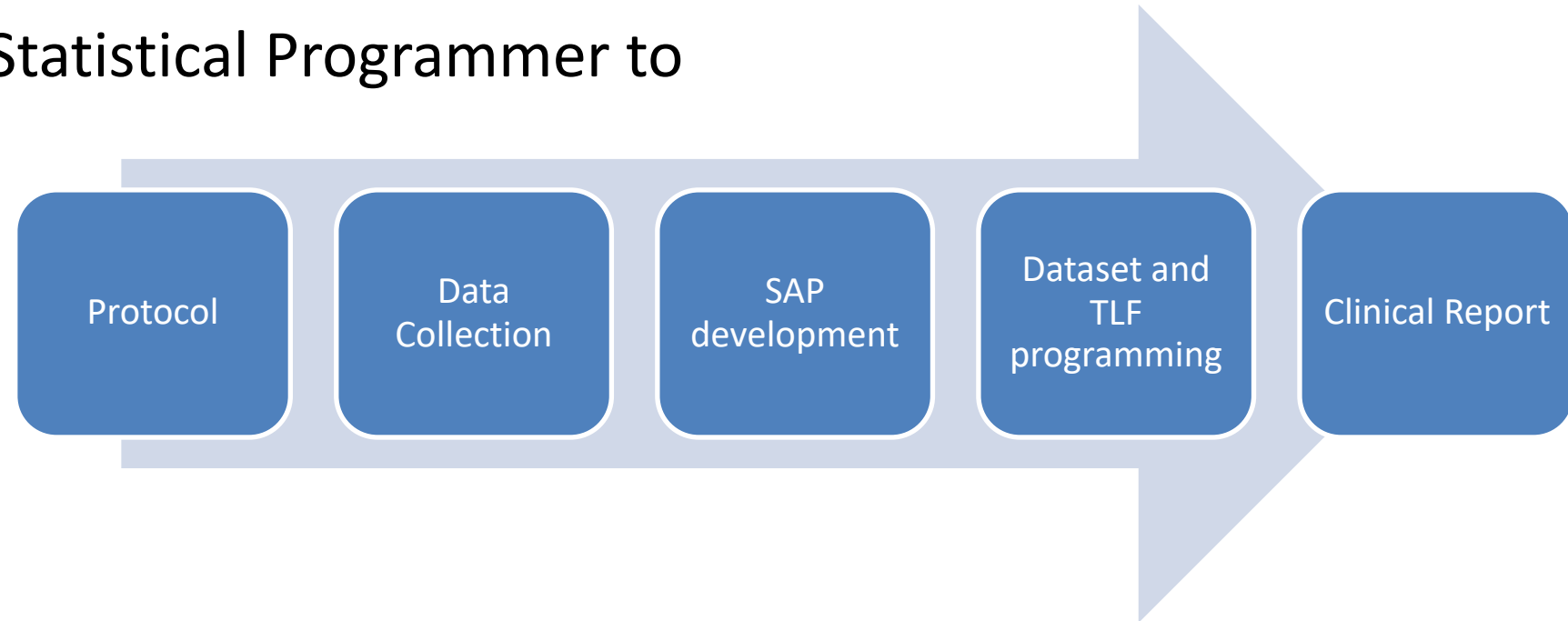
- Learning New Skills
 - Client communication
 - Technical writing / editing
 - Expand statistical knowledge
- Applying Existing Skill Set
 - Anticipating programming challenges
 - Supporting code development for complex models





- Overlapping skills: Statistical Programmer to Project Manager

- Timeline management
- Team/Resource management

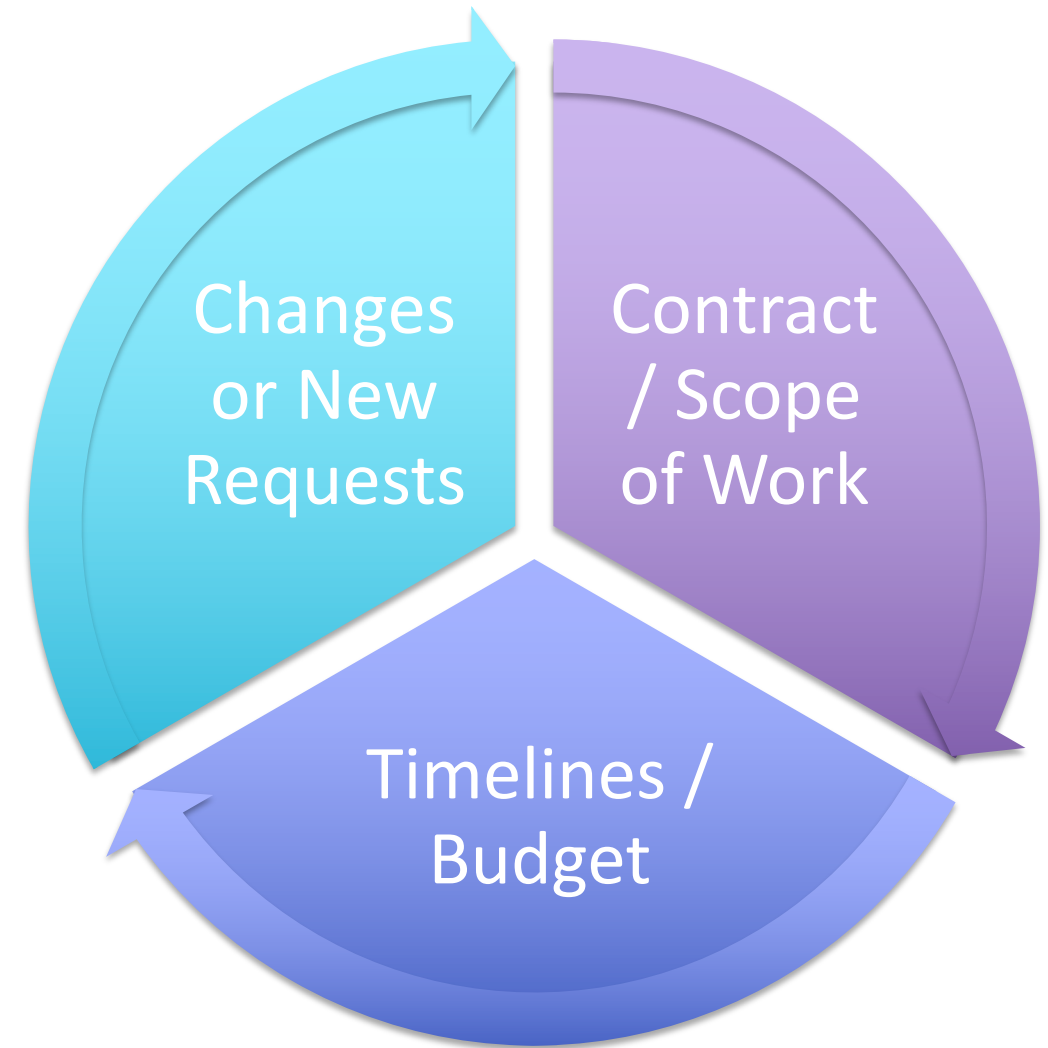


- Expand knowledge about processes in other Operational departments

- How does a delay cleaning up database queries affect timelines for other tasks?



- Learning New Skills
 - Sponsor Communication
 - Budget Management
 - Supervising Changes in the Scope of Work
- Applying Existing Skill Set
 - Technical Resource for Sponsors
 - Discuss Realistic Timelines



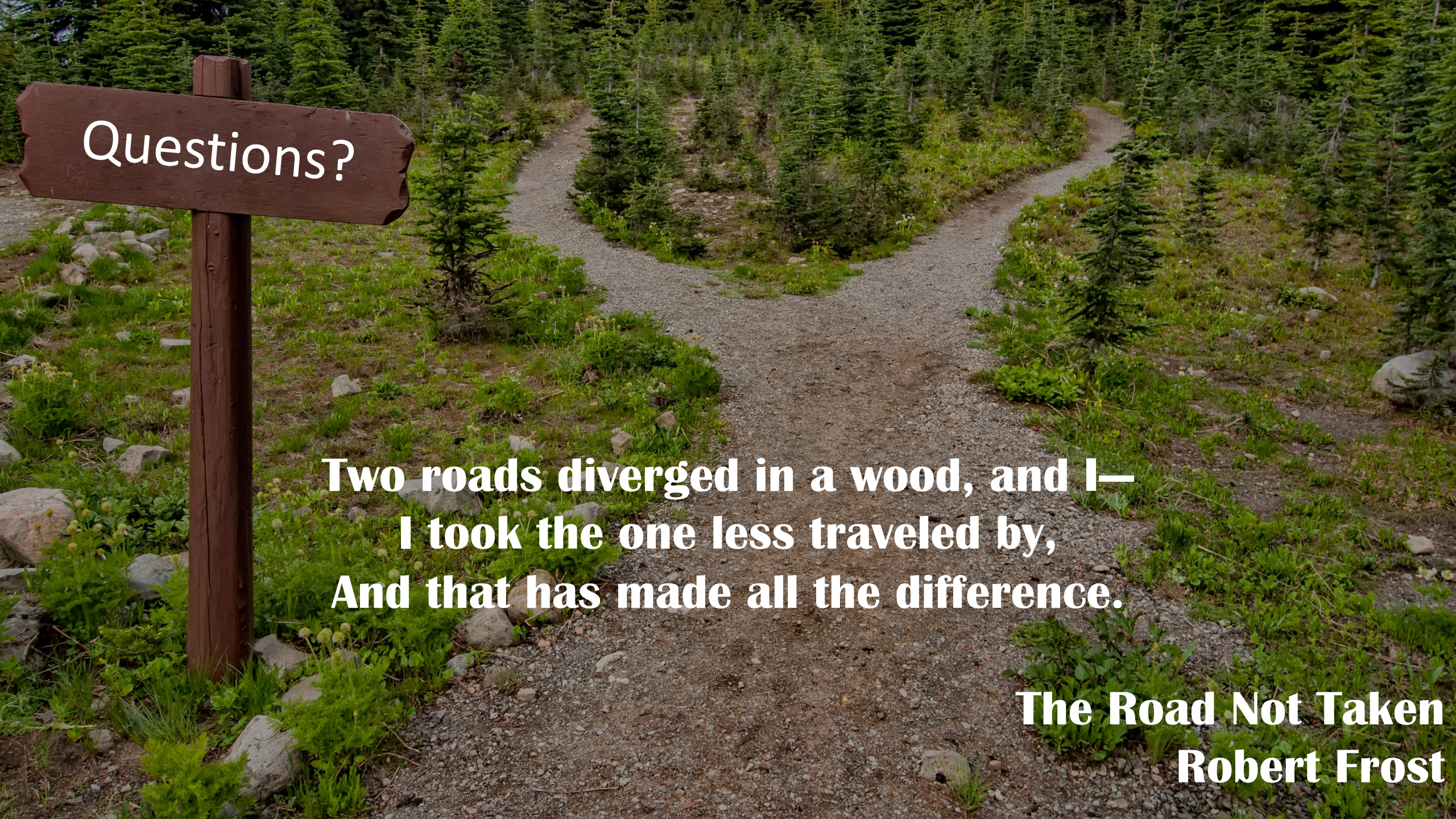


- Time Management
 - Managing responsibilities for both Statistical Programming and Project Management/Biostatistics roles when there may be conflicting priorities between projects
- Accountability
 - Avoid taking on extra responsibilities for tasks/documentation not related to our role within a project





- Professional development for programmers can take multiple trajectories.
- Multidisciplinary skills can only make you a more valuable team member.
- Your career path doesn't have to be a straight line.



Questions?

**Two roads diverged in a wood, and I—
I took the one less traveled by,
And that has made all the difference.**

**The Road Not Taken
Robert Frost**