Penn State Startup Pipeline
(October 2023)

1. Tracking
   - Neural Block Device (surgery pain control)
   - HydroSapient (hydraulics model for soil moisture)
   - GLIMER (Glide-Matched Electrocaloric Refrigeration)
   - MicroFlap (surgery healing assessment)
   - Diabetic Retinopathy Diagnostic

2. Review
   - PhotonX (antireflective coating)
   - Ionomer Solutions (fuel cell membranes)
   - SpyCage (nanocage platform for intranasal vaccine)
   - BioFoam (wound care)
   - Carbon4Good (carbon credits)

3. Assessment
   - Chromatir (color shifting coating)
   - TerraSafe Materials (biodegradable materials)
   - Spyran Biologics (diabetic retinopathy Rx)
   - Carbon4Good (carbon credits)
   - IOThera (immunotherapy for melanoma)

4. Co Formation
   - Chromatir (color shifting coating)
   - TerraSafe Materials (biodegradable materials)
   - Spyran Biologics (diabetic retinopathy Rx)
   - Carbon4Good (carbon credits)
   - IOThera (immunotherapy for melanoma)

5. Execution
   - Solaxa (nerve damage Rx)
   - Respama (Flu drug)
   - BioRES Technologies (rare earth extraction)
   - X-Hab 3D (3D printed concrete)
   - L-15 (laser imaging)

6. Commercialization
   - DecisionPro (market analytics)
   - TEAMology (K-12 ed. program)
   - CROtix (plant Dx)
   - DeNovo DNA (genetics software)
   - spotLESS Mat’l (surface coating)

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**Disclosure**
- IP / BMC

**Holding Box** (lost momentum)
- PersEA – natural food color
- ThoraciCair – respiratory assist
- Medulate – needle insertion simulator
- Arbitrator Intell. – arb. data analytics
- Lyralux – lighting platform

**Est. Time to Revenue (years)**
- 0
- 0-3
- 4-6
- 7+

**Business Executive**
- Have it
- Need it

**Industry Domains**
- Med Science
- Food & Ag Science
- IT & EdTech
- Eng/Mat/Energy