



# Amarantus

Bioscience

**Developing Therapeutic and Diagnostic Products for  
Neurological Disorders and Orphan Indications**

[www.amarantus.com](http://www.amarantus.com)

Ticker: OTCQX:AMBS

Annual Meeting of Shareholders  
August 3, 2015

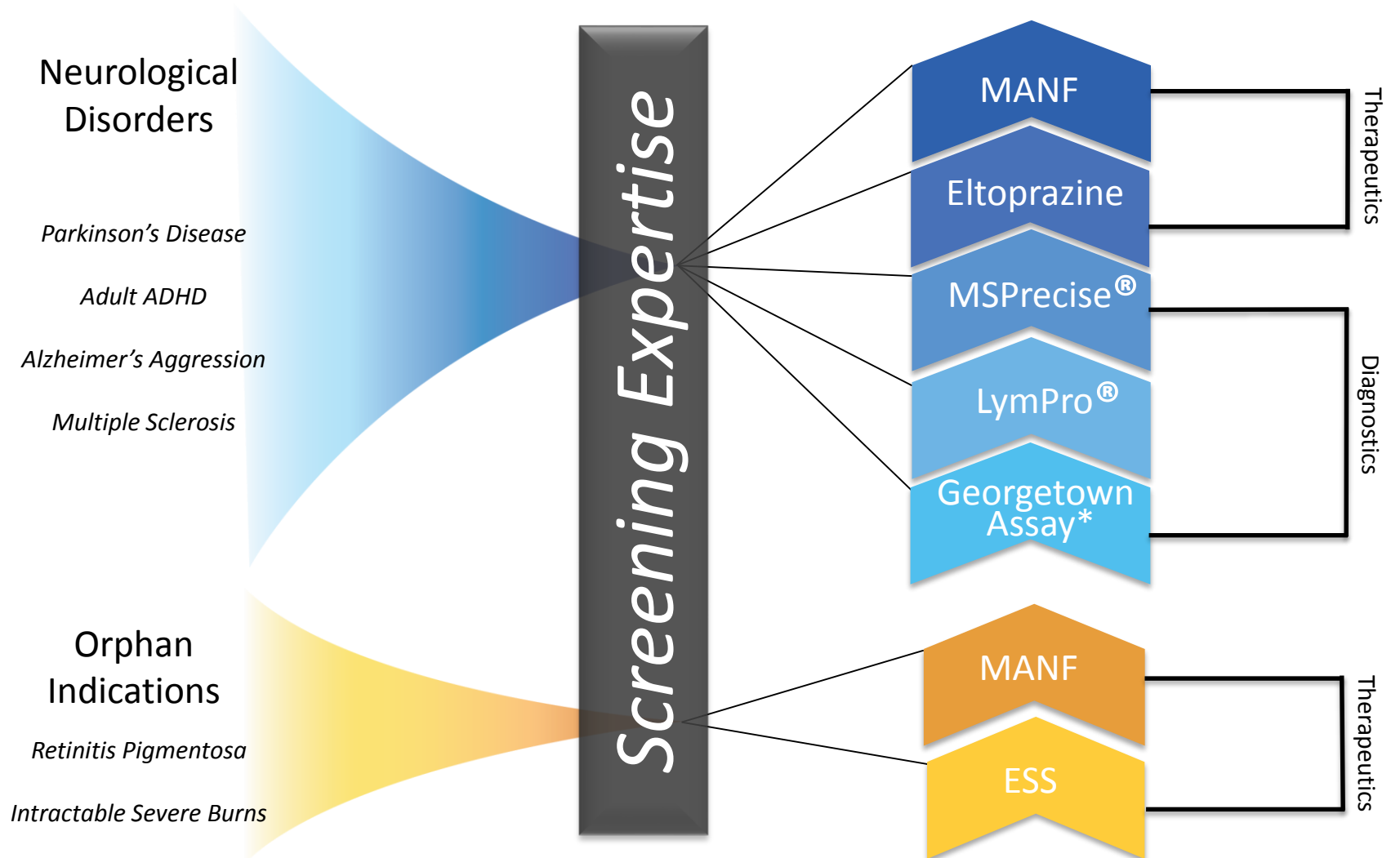
# Forward-Looking Statements

This presentation contains “forward-looking statements” within the meaning of the “safe-harbor” provisions of the Private Securities Litigation Reform Act of 1995. Such statements involve known and unknown risks, uncertainties and other factors that could cause the actual results of the Company to differ materially from the results expressed or implied by such statements, including changes from anticipated levels of sales, future international, national or regional economic and competitive conditions, changes in relationships with customers, access to capital, difficulties in developing and marketing new products and services, marketing existing products and services, customer acceptance of existing and new products and services and other factors. Accordingly, although the Company believes that the expectations reflected in such forward-looking statements are reasonable, there can be no assurance that such expectations will prove to be correct. The Company has no obligation to update the forward-looking information contained in this presentation.



# AMBS Holding Company Business Model Fuels Rich Pipeline

**Our Vision:**  
Identifying  
undervalued assets,  
de-risking and  
advancing to key value  
driving events:

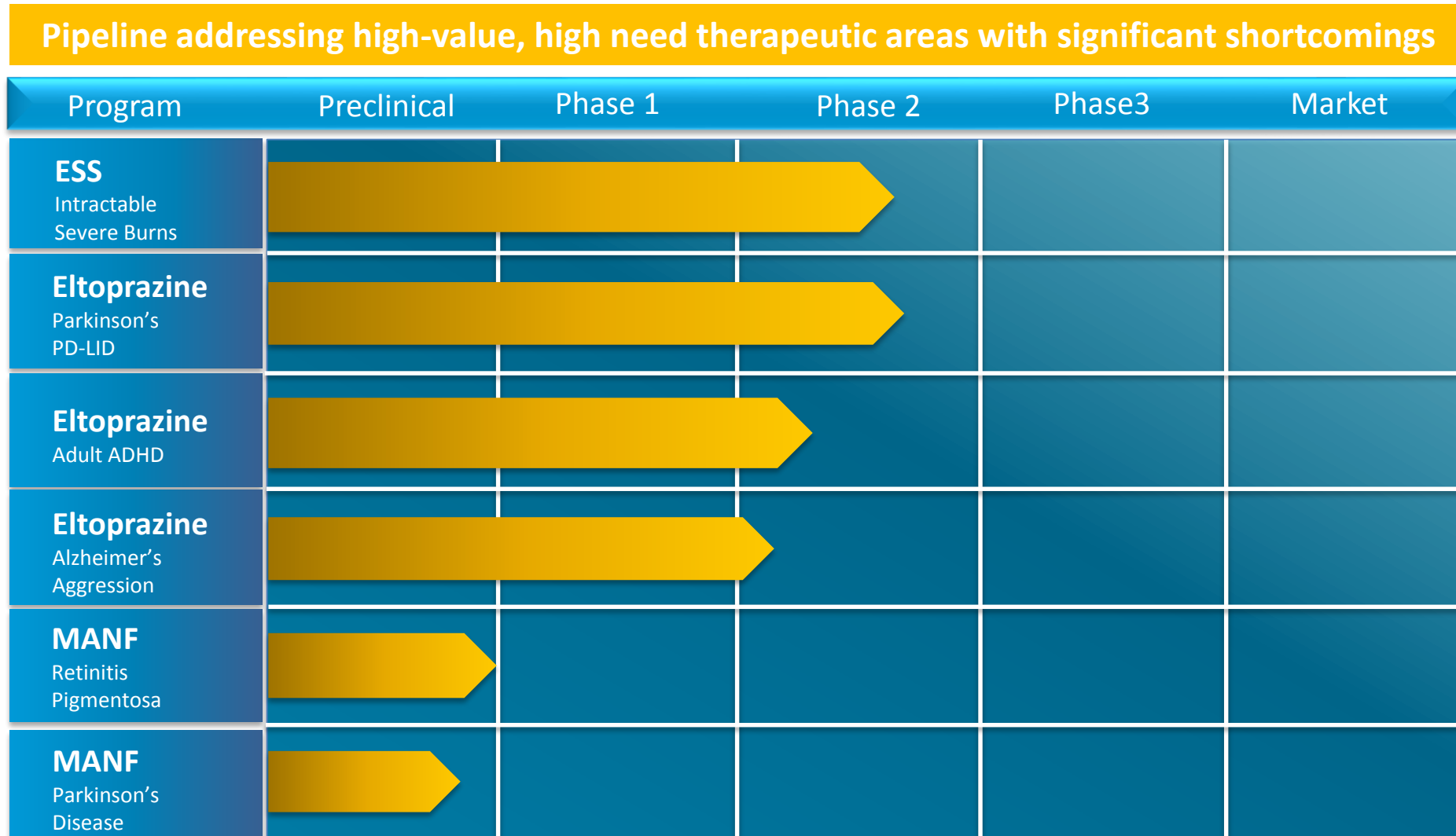


\*Upon exercise of exclusive option with Georgetown University



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# Building Value into Therapeutics Pipeline to Reach Transformational Milestones



# Recent ESS Acquisition to Add Significant Value

- Autologous, skin graft replacement for 50+% TBSA severe burns
- Biologics/drug regulatory pathway in office of combination products
- Orphan Drug Designation received in 2012
- Active IND as of May 2014
- Partially funded by US Gov't grant: AFIRM
- Project has been partially funded by DoD for last 5+ years
- Strong KOL Support
- Patient Population: ~2,000 average patients per year
  - Cost of treatment per patient: \$1.6M, w/ complications: \$10M+
- Secondary applications: pediatric burn 30%+ burns, diabetic foot ulcers, cosmetics
- 10 patient Phase 2 clinical trial on track to commence 3Q 2105



## ESS: Recent Milestone Achievements

- ✓ Completed acquisition of Cutanogen Corporation for exclusive rights to ESS
- ✓ Preparation underway to commence Phase 2 study
- ✓ First site initiation underway
- ✓ **Signed CRADA Agreement providing non-dilutive resources**
- ✓ Strong KOL support

### NEXT MILESTONES

- **Initiate first site at military facility in 3Q 2015**
- **Enroll first patient in Phase 2 study in 3Q 2015**
- **Work with regulatory authorities with the goal of establishing accelerated path to commercialization**
- **Announce top-line results of Phase 2 study in 2016**



# Eltoprazine: Recent Milestone Achievements

- ✓ Published Phase 2a clinical study results in BRAIN for the treatment of PD-LID
- ✓ Opened an IND application with the neurology division of the FDA to advance Eltoprazine into Phase 2b clinical studies
- ✓ Completed Investigator Meetings in US and EU
- ✓ Entered into a clinical trial agreement with Chiltern International, a leading global contract research organization to manage the clinical research and monitoring program services for the Phase 2b study in PD-LID
- ✓ Opened clinical trial sites in US
- ✓ USPTO issued U.S. Patent entitled, "Pharmacological Treatment of Parkinson's Disease," covering methods for the administration of [eltoprazine](#), in combination with the anti-Parkinson's drug, levodopa (L-DOPA), for the treatment of Parkinson's disease
- ✓ Commenced patient dosing of Phase 2b study

## NEXT MILESTONES

- **Expand Phase 2b program in Europe**
- **Complete patient enrollment**
- **Report top-line results of Phase 2b program in 2H 2016**





# MANF: Recent Milestone Achievements

- ✓ Announced the successful delivery and distribution of [MANF in a preclinical model to brain areas involved in Parkinson's disease](#), further solidifying the rationale for its preclinical development as a potential disease-modifying treatment for PD
- ✓ Entered into a [cGMP manufacturing agreement with Catalent Biologics for clinical-grade production of MANF](#) to enable program advancement into human clinical studies in retinitis pigmentosa (RP), retinal artery occlusion, glaucoma and Parkinson's disease
- ✓ Presented positive preclinical data showing [MANF preserves the light-sensing function of photoreceptor cells](#) at ARVO
- ✓ Received a Notice of Allowance for the U.S. patent application covering compositions of matter and methods of use related to [proprietary manufacturing processes for synthetic MANF and its administration](#) for protein therapy and cell therapy
- ✓ Received [European Union Orphan Drug Designation \(ODD\) for MANF](#) for the treatment of RP, complementing the US ODD obtained in December 2014
- ✓ Significant progress with academic collaborators

## NEXT MILESTONES

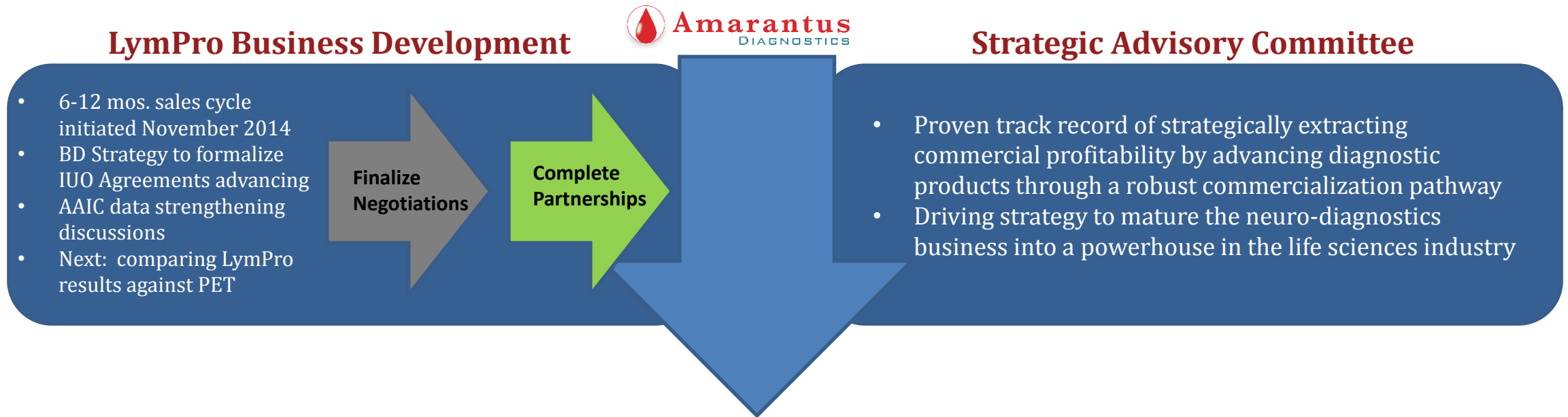
- Commence first-in-human Phase 1 study in 2H 2016
- Expand development program into additional high-value indications





# Amarantus Diagnostics Preparing for Strategic Transaction

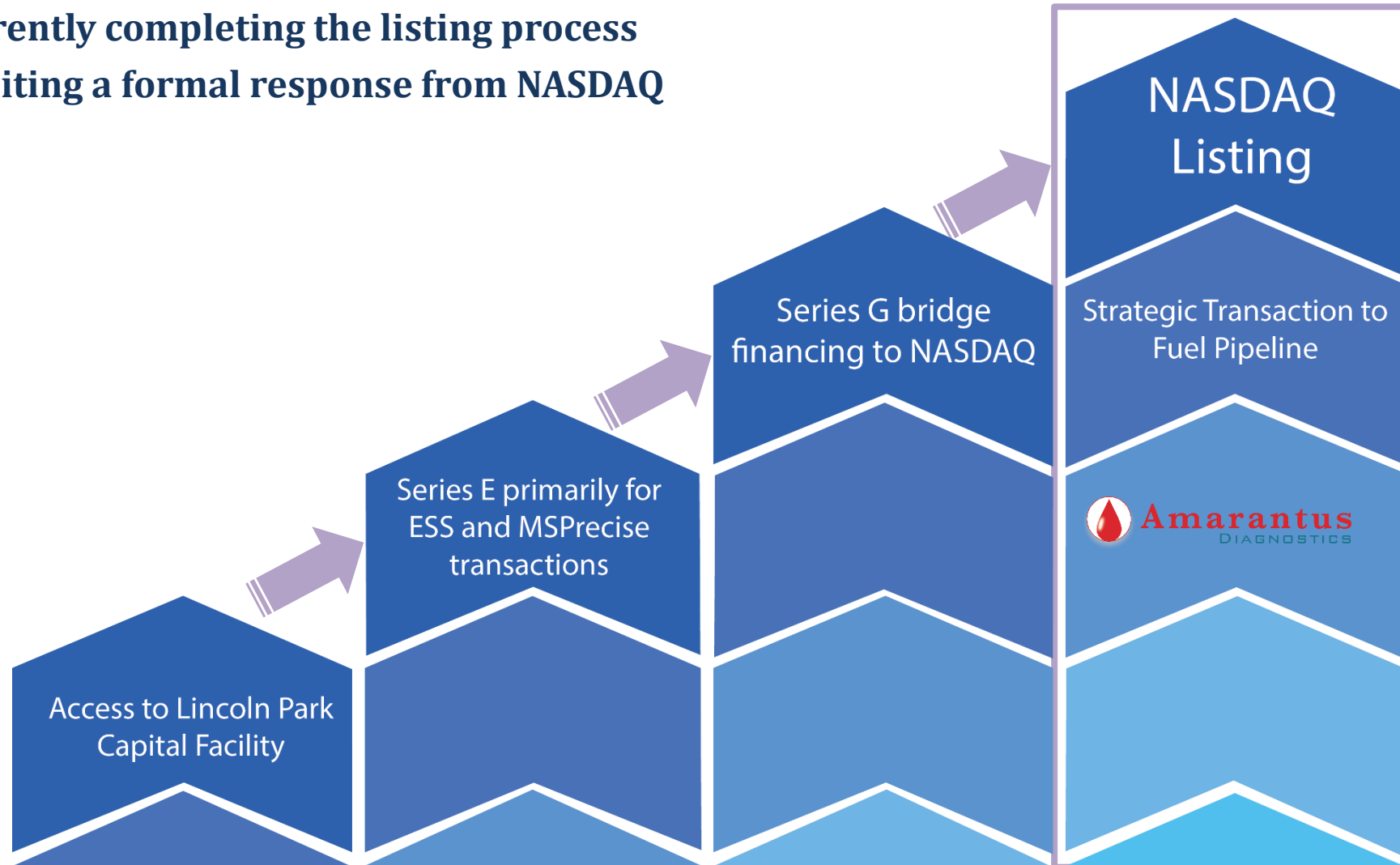
- LymPro Test®: Optimizing IUO marketing and CLIA strategy
- MSPrecise®: Finalizing commercial strategy for staged product launch
- Georgetown assays position to control significant market share in the emerging AD IUO blood diagnostics market



**Deriving full value from neuro-diagnostics business through potential sale, co-development or spinoff opportunities**

# Up-listing to NASDAQ is a Priority

- ✓ Submitted the listing application
- ✓ Currently completing the listing process
- ✓ Awaiting a formal response from NASDAQ



## Next Steps for Amaranthus

- Uplist to **NASDAQ** as rapidly as possible
- Focus on **Operational Excellence** with therapeutic programs to advance to key data milestones
- Complete **strategic transaction** with Amaranthus Diagnostics

We are prepared to enter our next phase of growth!



## Q&A





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