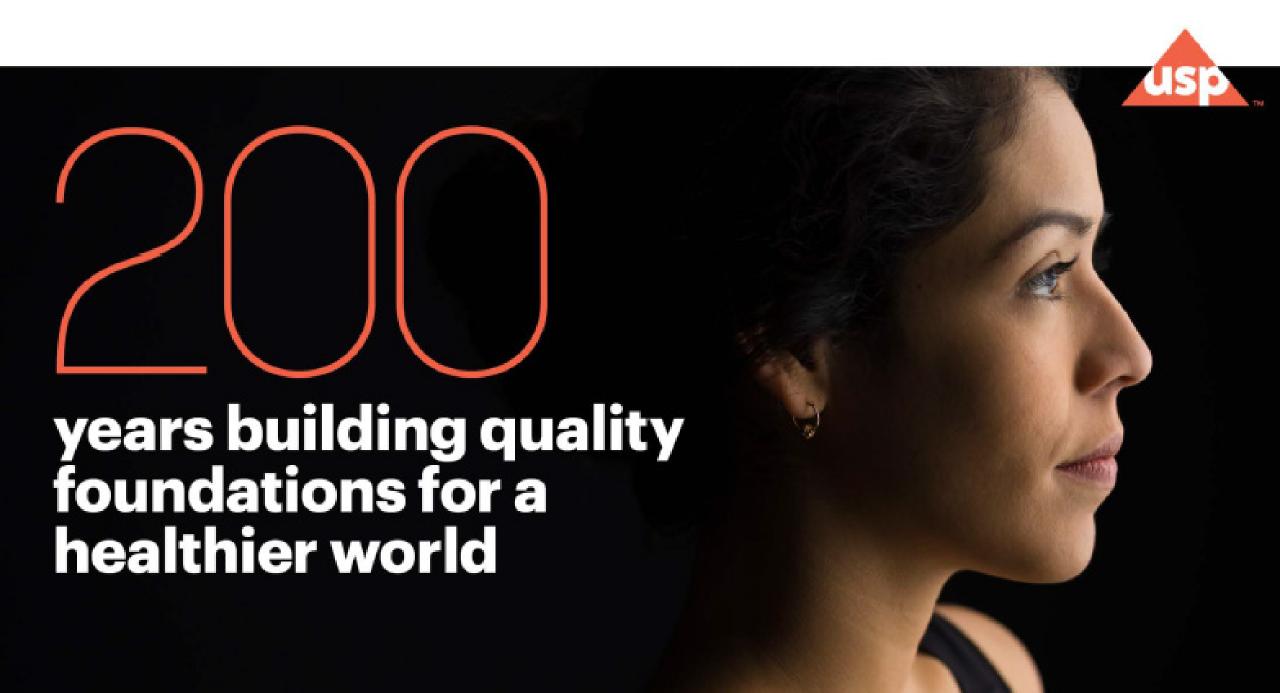
### **USP Informatics Activities**











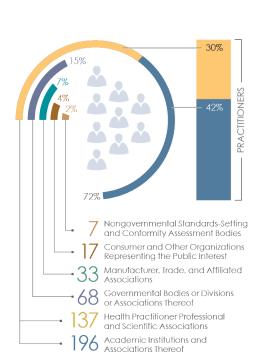
## **Advocating for Quality**











- ▶ USP-NF is recognized 40+ countries
- Diverse and strong partnerships
  - > 450 Organizations
  - Academic Institutions and Associations
  - Health Practitioner, Professional, and Scientific Associations
  - Manufacturer, Trade, and Affiliated Associations
  - Governmental Bodies, Divisions and Associations
  - Consumer and Other Organizations Representing the Public Interest
  - Non-governmental Standards-setting and Conformity Assessment Bodies
- Expert engagement

## **2020-2025 Strategic Priorities**



# USP is building informatics capacity and thinking into the standards setting process

- Strategy: Aligning strategic vision with informatics in mind
- ▶ Science: Creation of Health IT Expert Committee
- **Execution/Operation:** Creation of Informatics framework within the organization
  - Proof of concepts and future standards landscape
  - Enhance informatics capabilities
  - Translational Informatics
    - Pharma manufacturing
    - Healthcare Practitioner
    - Treatment racinoner



Stakeholders: Expand and strengthen partnerships with key stakeholders in informatics



## USP standards impact many points along the value chain



#### Manufacturer

Regulatory

Healthcare Practitioners Patients Access



Impurities, Excipients



Compounding,

Safe handling of HDs

Medication error prevention (NCC MERP)

Formulary Design







#### **Translational Informatics**



- **USP Compendial Nomenclature**
- **API/Impurity Data** Services\*



- **Encoded** compounded drug **formulations**
- HazRx®



- **Drug Allergies and** Intolerances\*
- Pharmcogenomics\*



- **USP Drug** Classification
- **Medicare Model Guidelines**

## **Informatics Framework: Inputs and Outputs**

**Informatics** 

Framework



### **Input Sources**

R&I

Research & Innovation

Science Chapters & Standards

VOC End users, Industry, Research...

## Output types

- Prototypes
- Pilots

- Translational Informatics
- Related Services

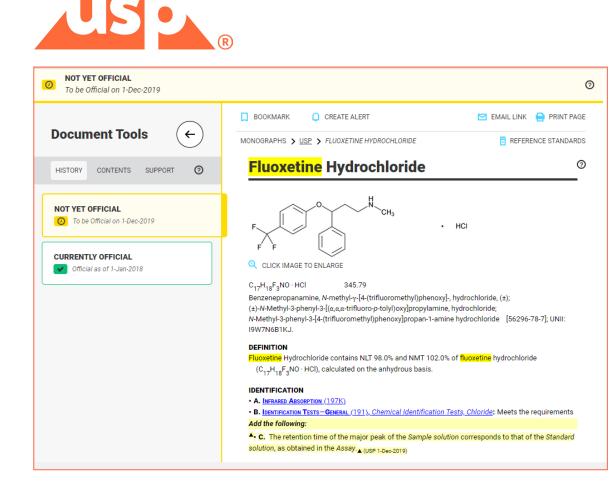
- **Product Development**
- Modernizations

## Possible efficiencies and innovations of USP & Allotrope working together





- Monograph use cases
  - Reduce/eliminate manual transcription of content from monographs
  - Fully automate the QC run and validate against the monograph
- Data Science and Machine Learning
  - Machine-readable library of compendial content
- Regulatory Support
  - Synergy to support PQ/CMC, KASA, other regulatory use cases



#### **Get involved!**

USP

- Call for Candidates
- Sign up for updates
- Provide input
- spe@usp.org



Fill out our brief questionnaire to help us better understand your needs (use the QR code below to access the questionnaire)

