



Knowledge-Aided Assessment and Structured Application (KASA) DRUG PRODUCT ASSESSMENT

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DIMRPII/OLDP/OPQ/CDER/FDA



Knowledge-Aided Structured Application (KASA) DRUG PRODUCT ASSESSMENT

Concepts to keep in mind during this presentation:

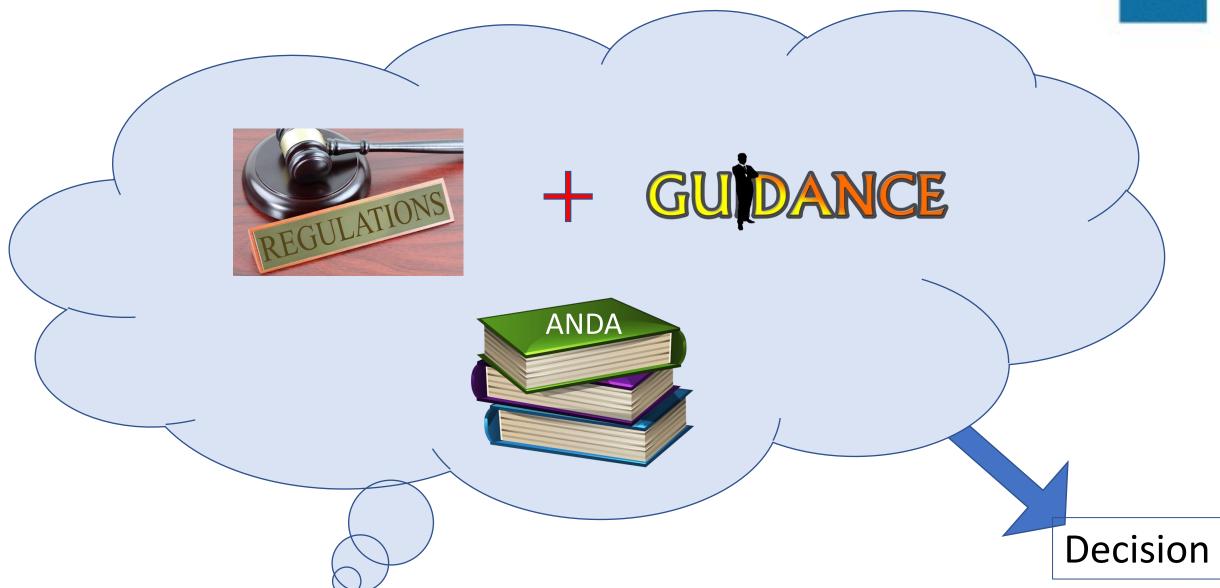
Data Regulation Analytics
Structure Guidance Lifecycle

RISK

Decision

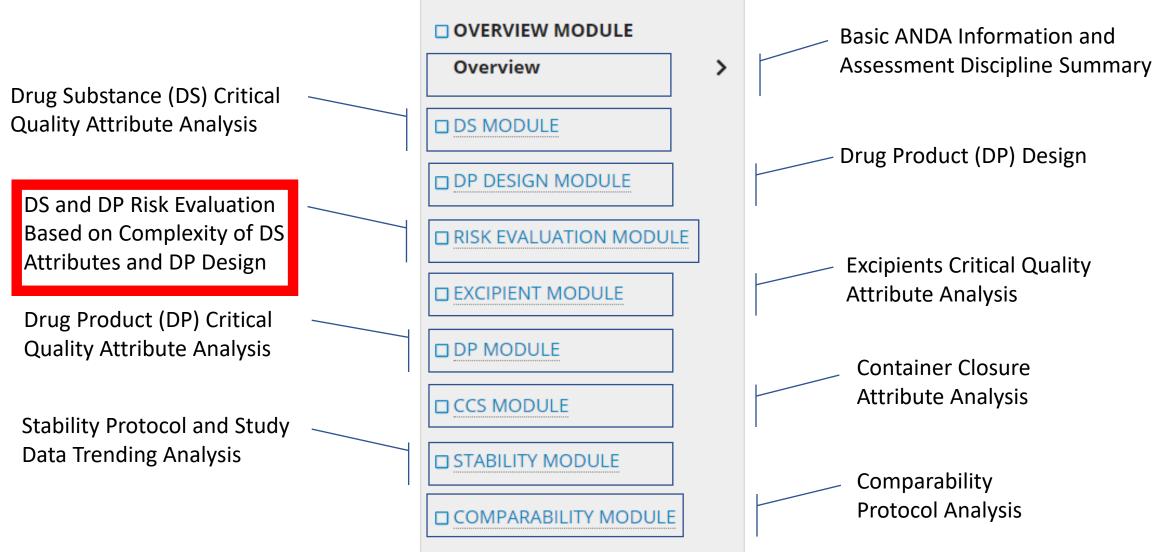
Drug Product Quality ANDA Assessment **Before** KASA

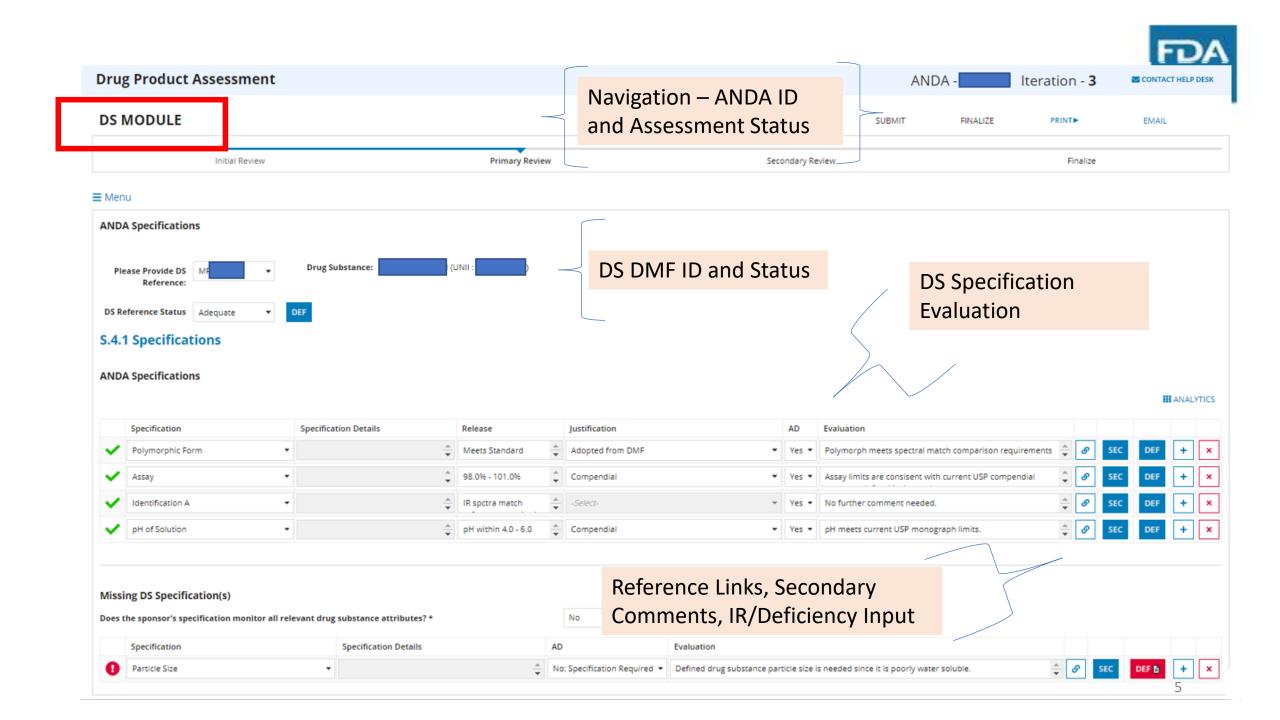


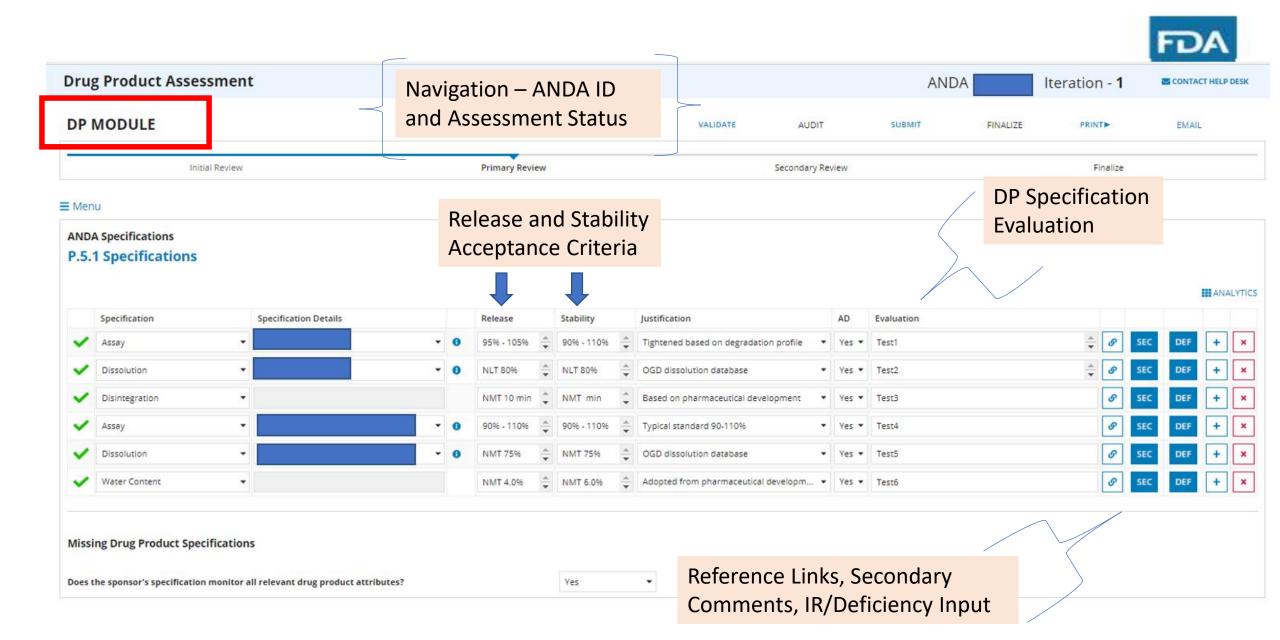


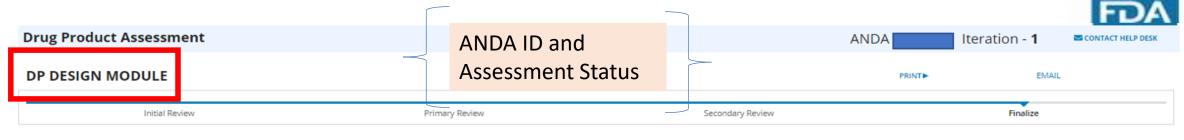
KASA Drug Product Assessment Focal Points in ANDA Application

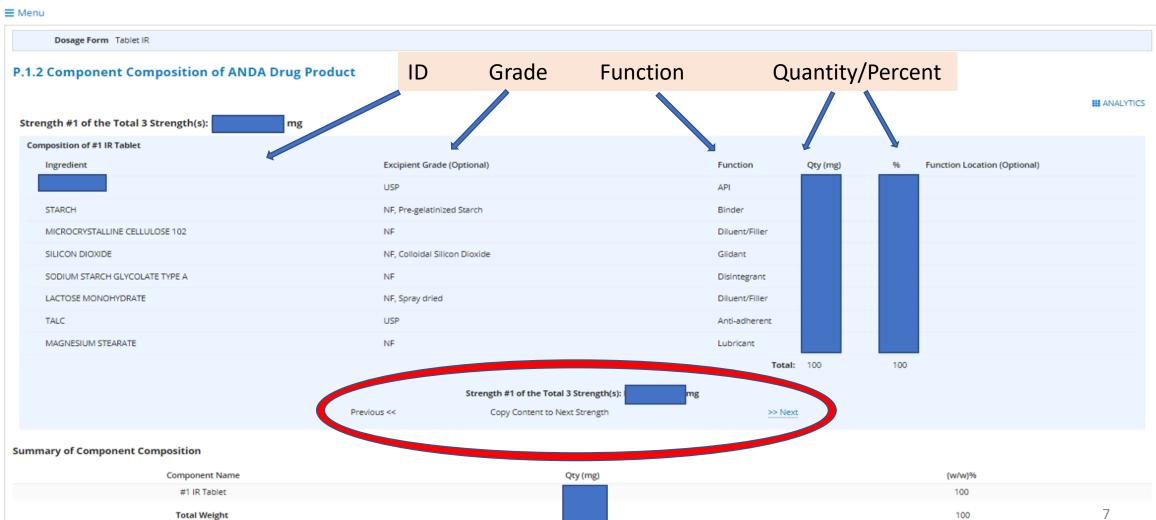


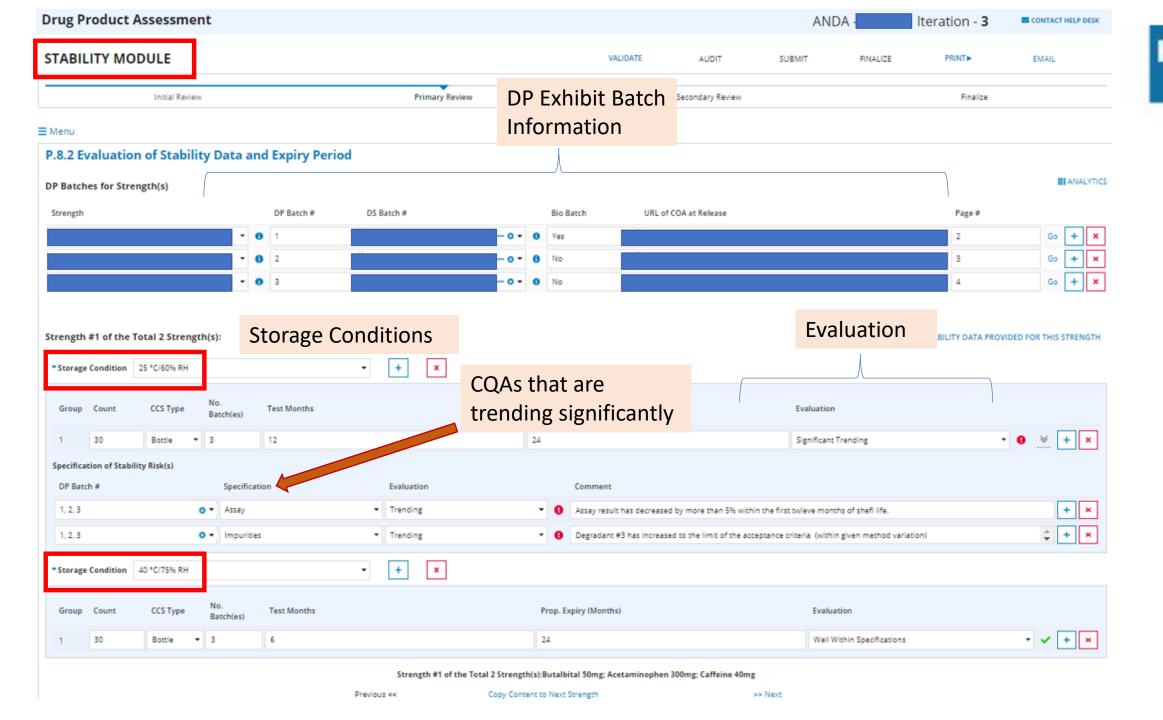


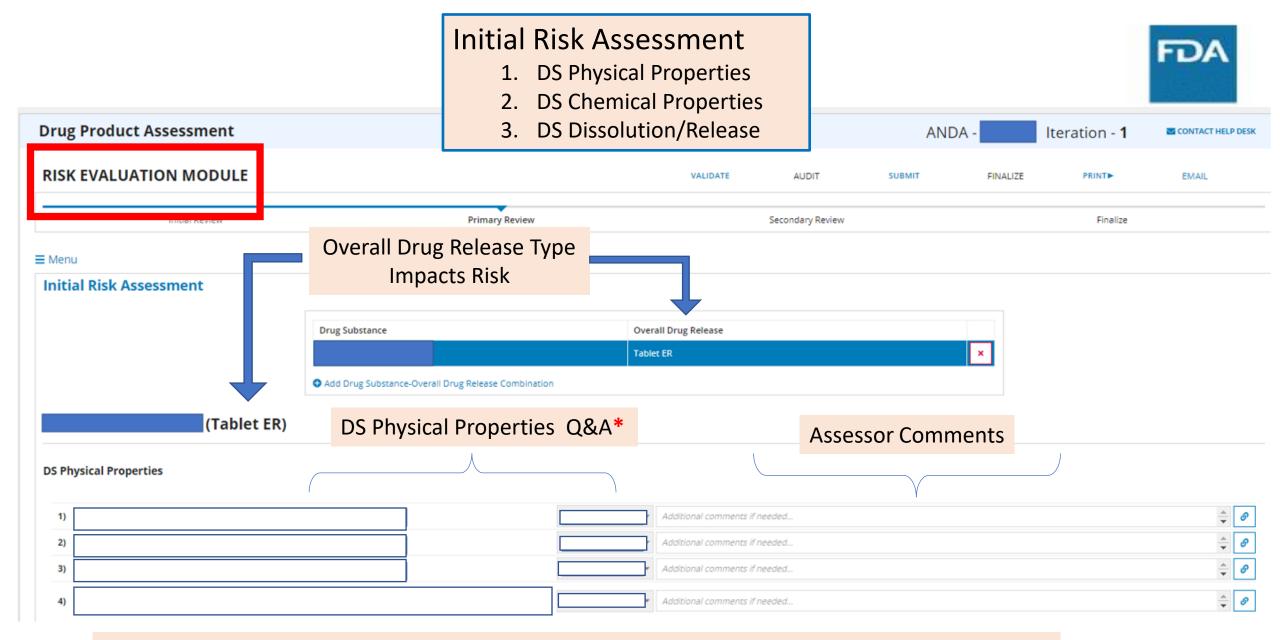












^{*} Developed by Subject Matter Experts in OLDP; support algorithms related to risk assessment.

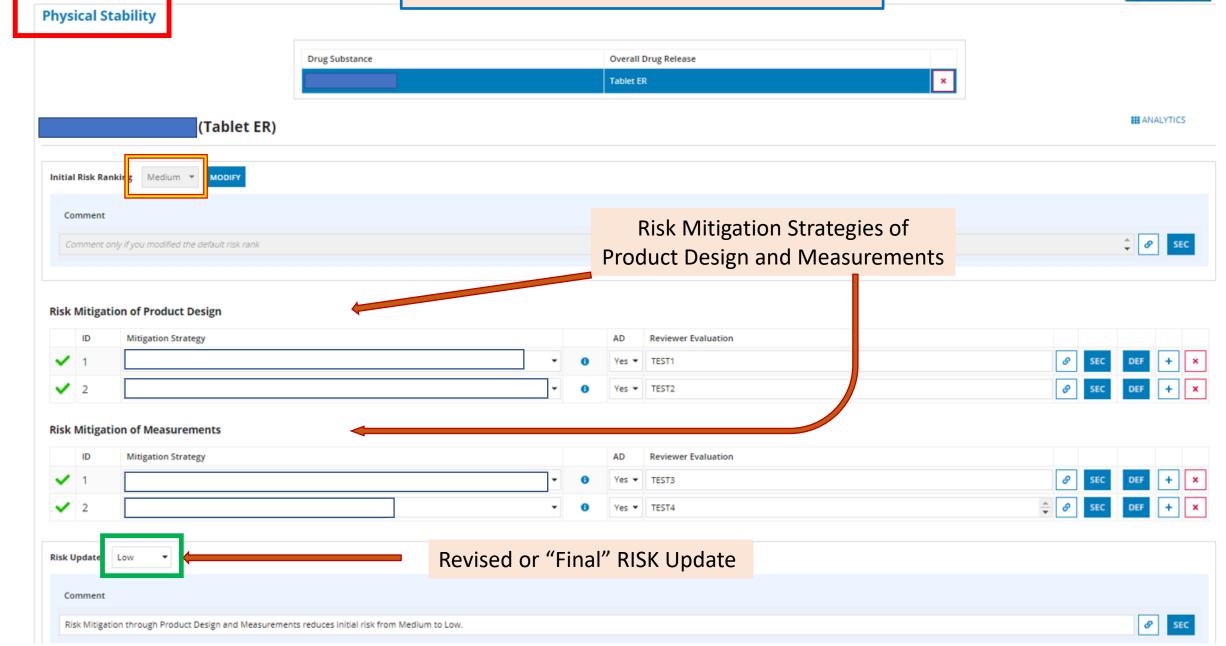
Initial Risk Assessment (Continued)

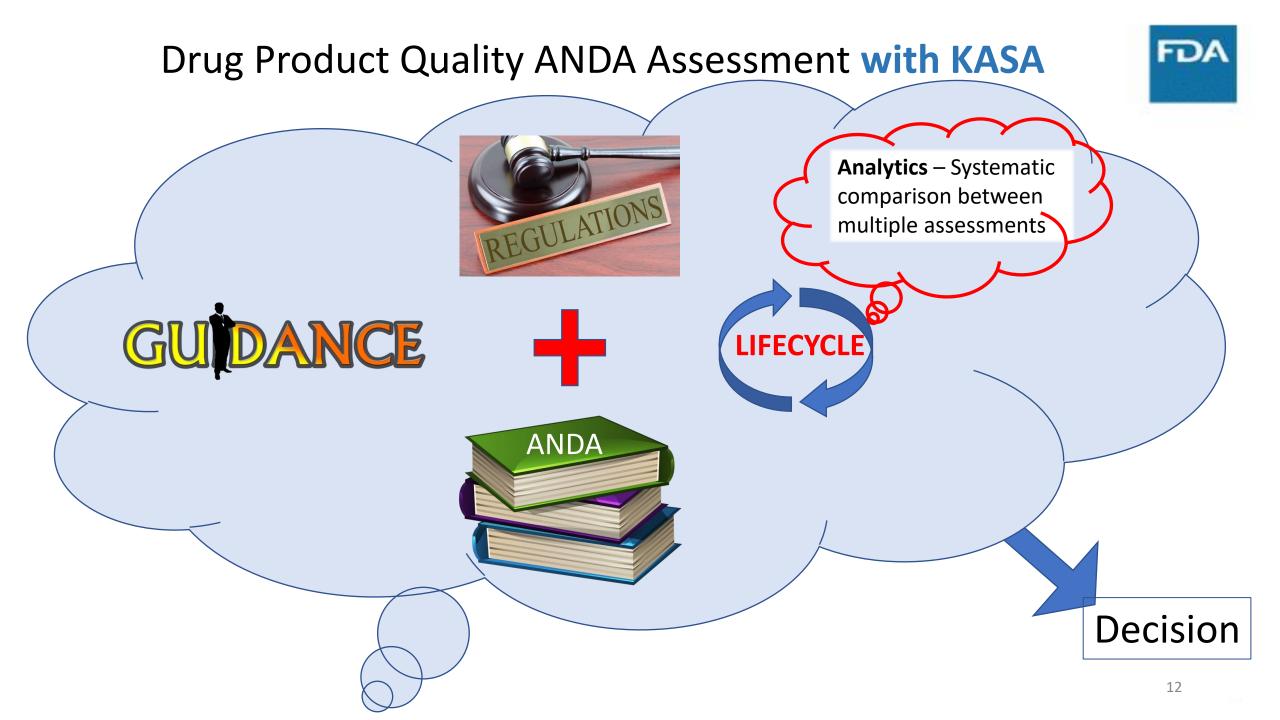


DS Chemical Properties DS Chemical Properties Q&A **Assessor Comments** Additional comments if needed... 1) 2) Additional comments if needed.. DS Dissolution & Drug Release **DS Dissolution & Drug Release** ÷ 0 Additional comments if needed ... 2) Additional comments if needed ... Additional comments if needed ... 3) Additional comments if needed ... 4) Additional comments if needed ... Additional comments if needed ... Initial Risk Assessment "Score" UNLOCK INITIAL RISK ASSESSMENT Initial Risk Assessment Risk of Physical Stability **Risk of Chemical Stability** Risk of In Vitro Dissolution MEDIUM MEDIUM HIGH

Revised or "Final" Risk Assessment









Three Benefits of KASA for DP Assessment:

- 1. Provides a *structured approach* to DP Assessment that fully supports the decision on ANDA product quality.
- 2. Allows collaborative multi-disciplinary view of the Quality Assessment to ensure a *consistent decision-making approach*.
- 3. Gives FDA internal customers, like OGD & OLDP Post-Marketing Assessors, the ability to *review the DP Lifecycle* using *Analytics* of DS & DP CQAs, Stability, and Risk Evaluation.





Thanks for your Attention.



Challenge Question: KASA for DP Assessment

Which concept does KASA for DP Assessment support that was perhaps not previously in the mindset of assessors?

- A. Use of regulation and guidances.
- B. Drug Product Lifecycle from the RLD through all its generics.
- C. FDA is an Agency that is data-driven.