USE CASE Mastering SaMD Development: Five Fundamental Principles for Success



JAMES GRAVESTON Principal Business Consultant Zühlke



















Mastering SaMD Development

Five Fundamental **Principles for Success**

Dr. James Graveston
Principal MedTech Consultant

MedTech and SaMD have huge potential, but it isn't being realised.

Some big failures:









By Chirag Adatia, Ralf Dreischmeier, Samarth Shah, and Kirtika Sharma



Digital-native start-ups and healthcare incumbents can both play important roles in building and scaling digital therapeutics to improve the management of chronic health conditions.

TECH

Why digital health has been such a disappointment, and how to change that

We consult on and build MedTech



























Prevented 1 million infections 44,000 hospitalisations 9,600 deaths in 12 months





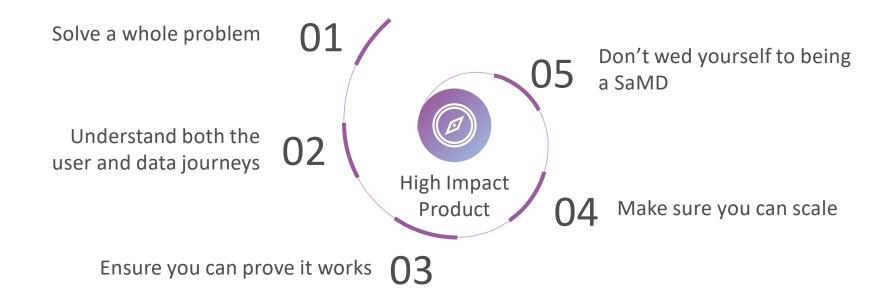
What I'm not talking about....
ISO13485
EN62304

Disclaimer:

The examples are from experience and heavily anonymised. If they describe your product, I'm sorry!

5 key points you must cover when developing or evaluating potential SaMD









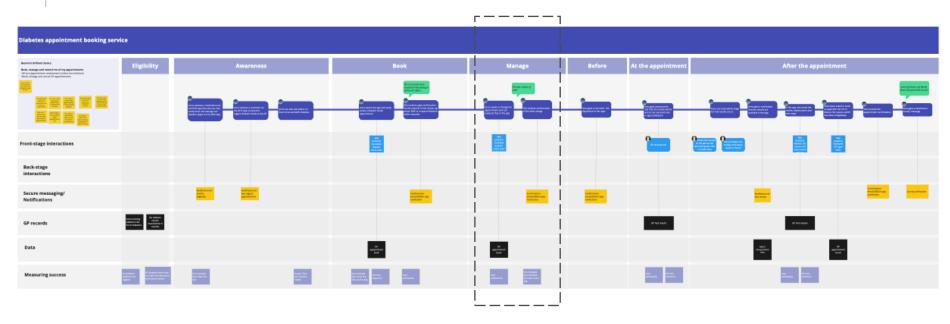
01

Solve whole problems

Why point solutions
don't often release time



Q2 Understand the whole context, not just your part



Don't just focus here



When you don't understand the user journey, you may find you don't provide value





- Can you get the data to make it run AND prove it works?
- Is there an API?
- Is the data you can get to prove it works representative?
- When is the data available, is it timely?



... and how data flows in and out of your solution?

Software as a Medical Device (SAMD): Clinical Evaluation

Guidance for Industry and Food and Drug Administration Staff

Document issued on December 8, 2017.

The draft of this document was issued on October 14, 2016.

For questions about this document, contact the Office of the Center Director at 301-796-6900 or the Digital Health Program at digitalhealth@fda.hhs.gov.



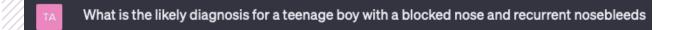
U.S. Department of Health and Human Services
Food and Drug Administration
Center for Devices and Radiological Health

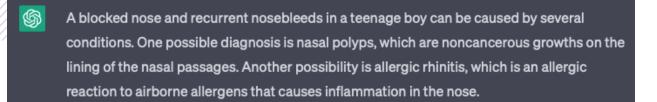


03

Just because it works, doesn't mean you can prove it!

Validating black boxes can be very hard





What is the likely diagnosis for an adolescent boy with unilateral nasal obstruction and recurrent epistaxis

Unilateral nasal obstruction and recurrent epistaxis (nosebleeds) in an adolescent boy can have several possible causes, but one possible diagnosis that should be considered is Juvenile Nasopharyngeal Angiofibroma (JNA).



Proving things can take a long time





04 Scaling is not a technology problem



Processes



IT Systems



Data Quality & Formats





05

Can you make a difference without being a SaMD?



5 key points you must cover when developing or evaluating potential SaMD





» Build the right thing...
...then build it right

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Principal MedTech Consultant



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