



The two loops of building algorithmic products

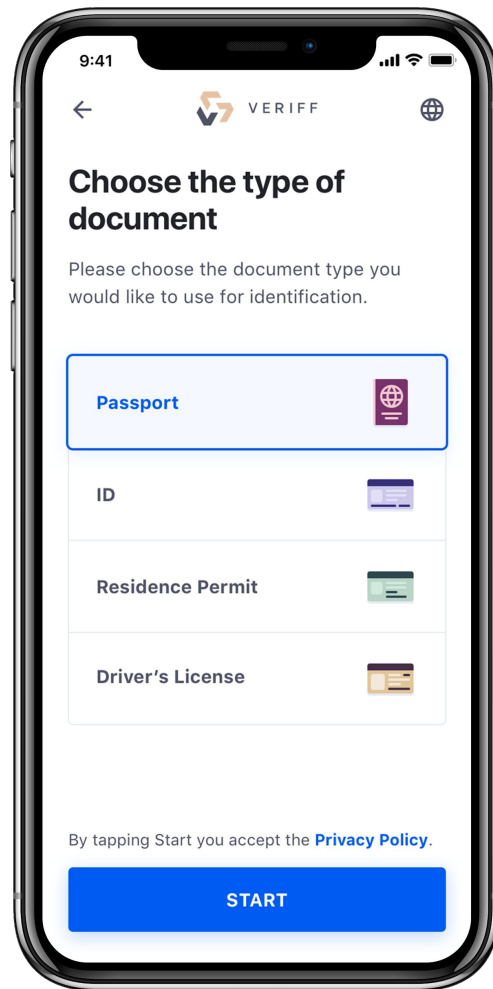
(experimental)

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Our Product

Follow instructions given.
Show face and document.

Get verified!



Our Product

Follow instructions given.
Show face and document.

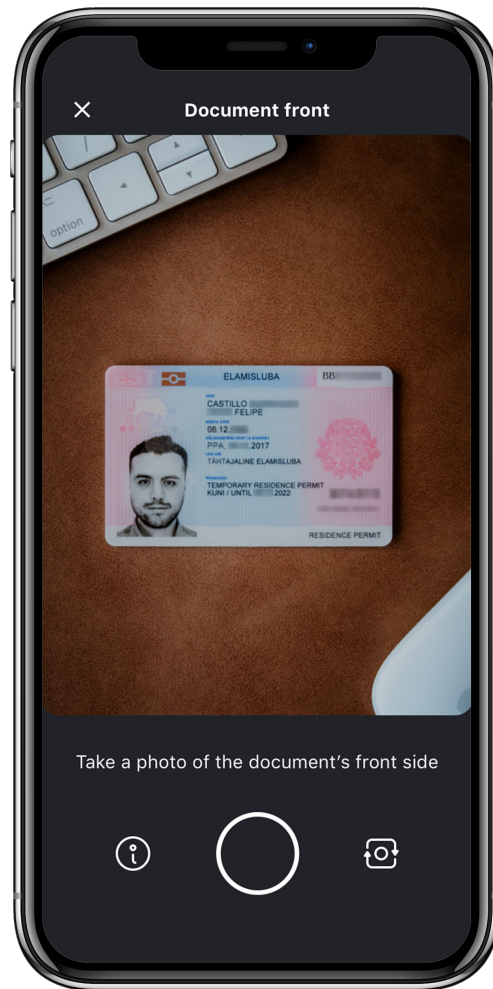
Get verified!



Our Product

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Show face and document.

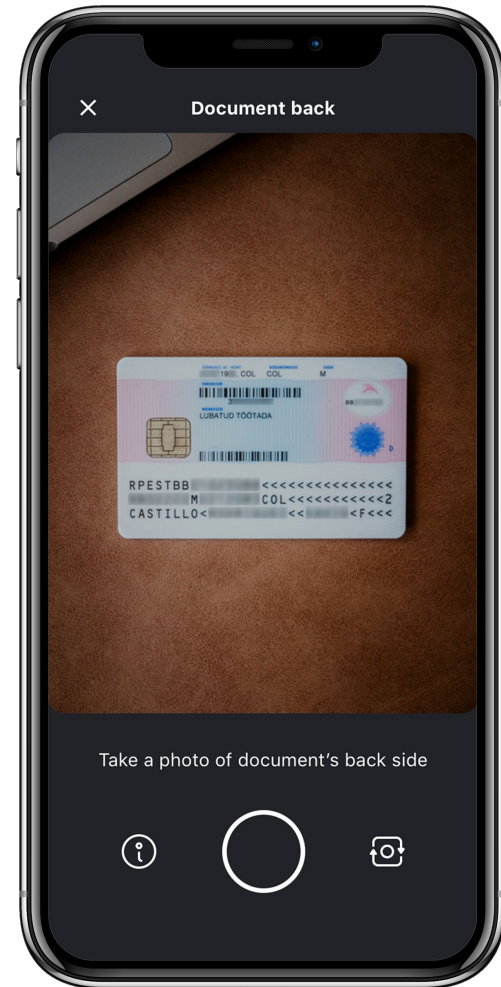
Get verified!



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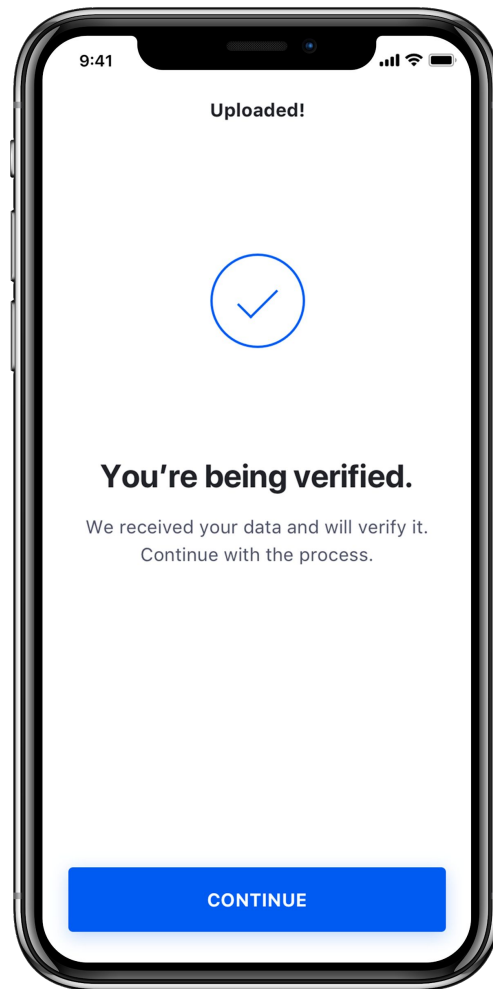
Get verified!



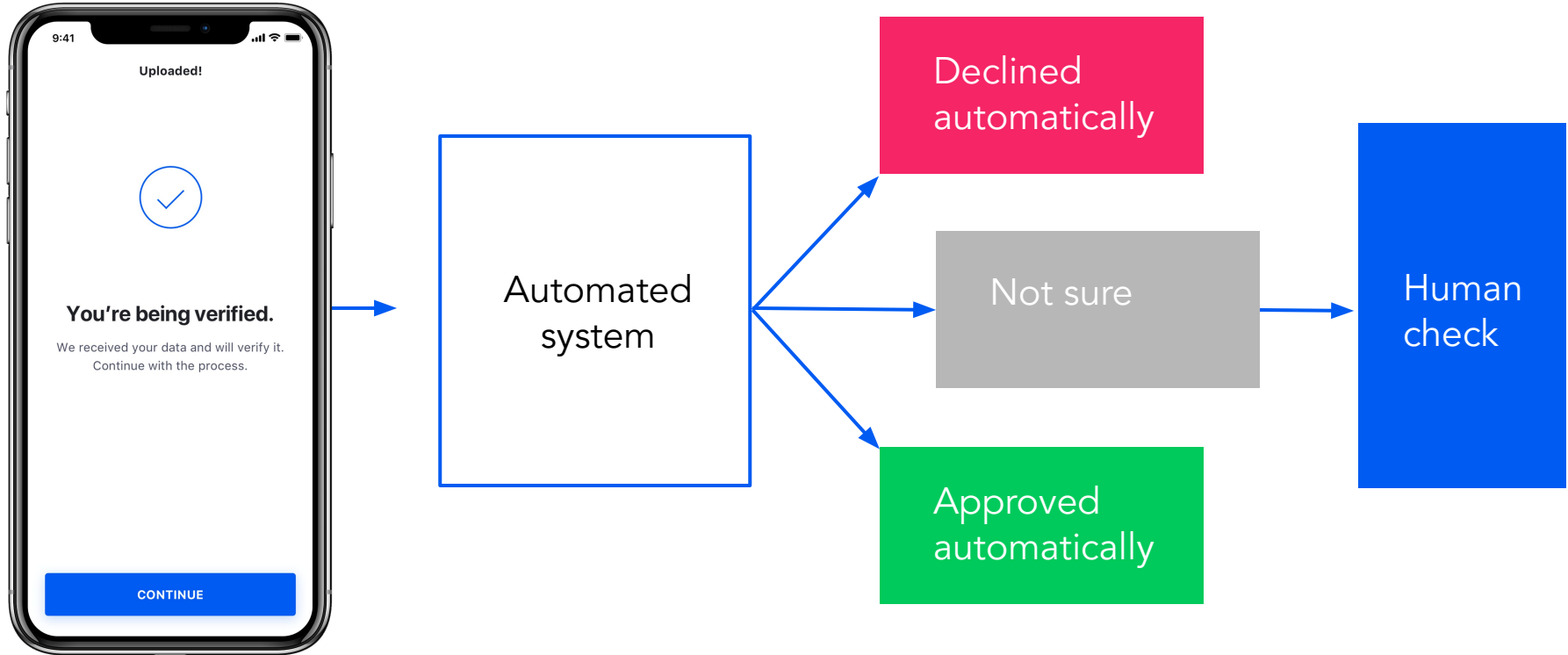
Our Product

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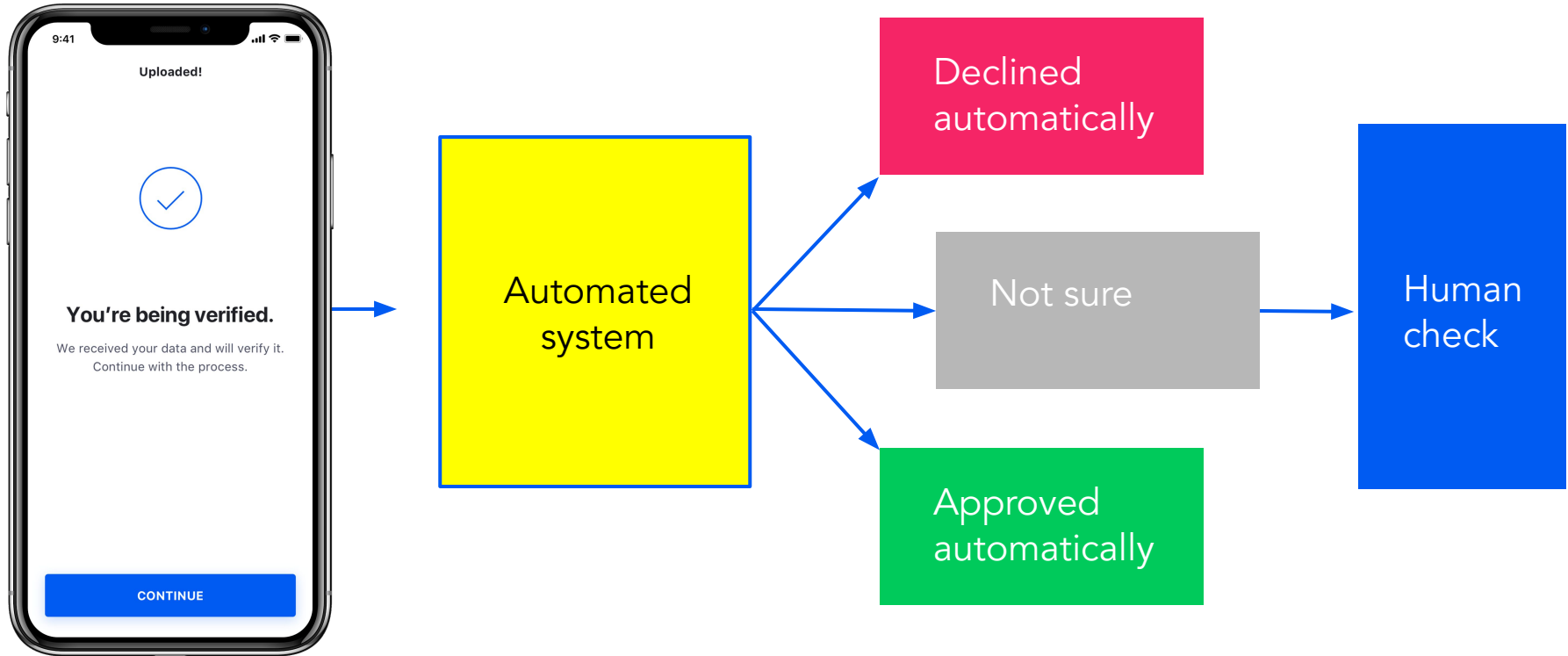
Get verified!

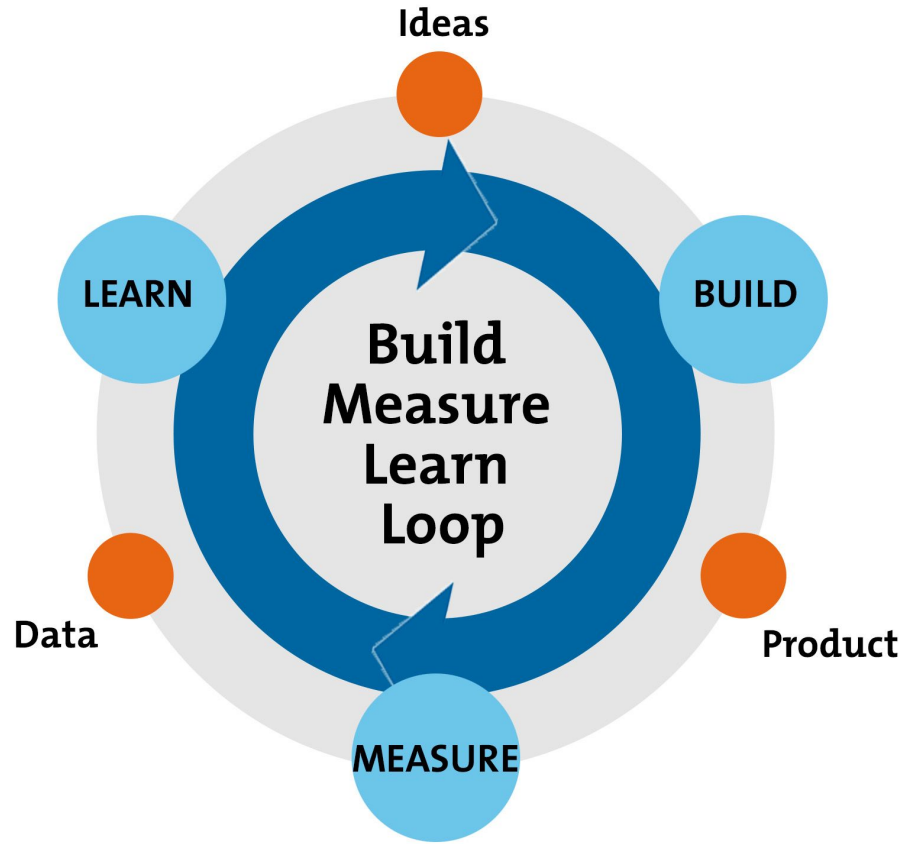


Gradual automation

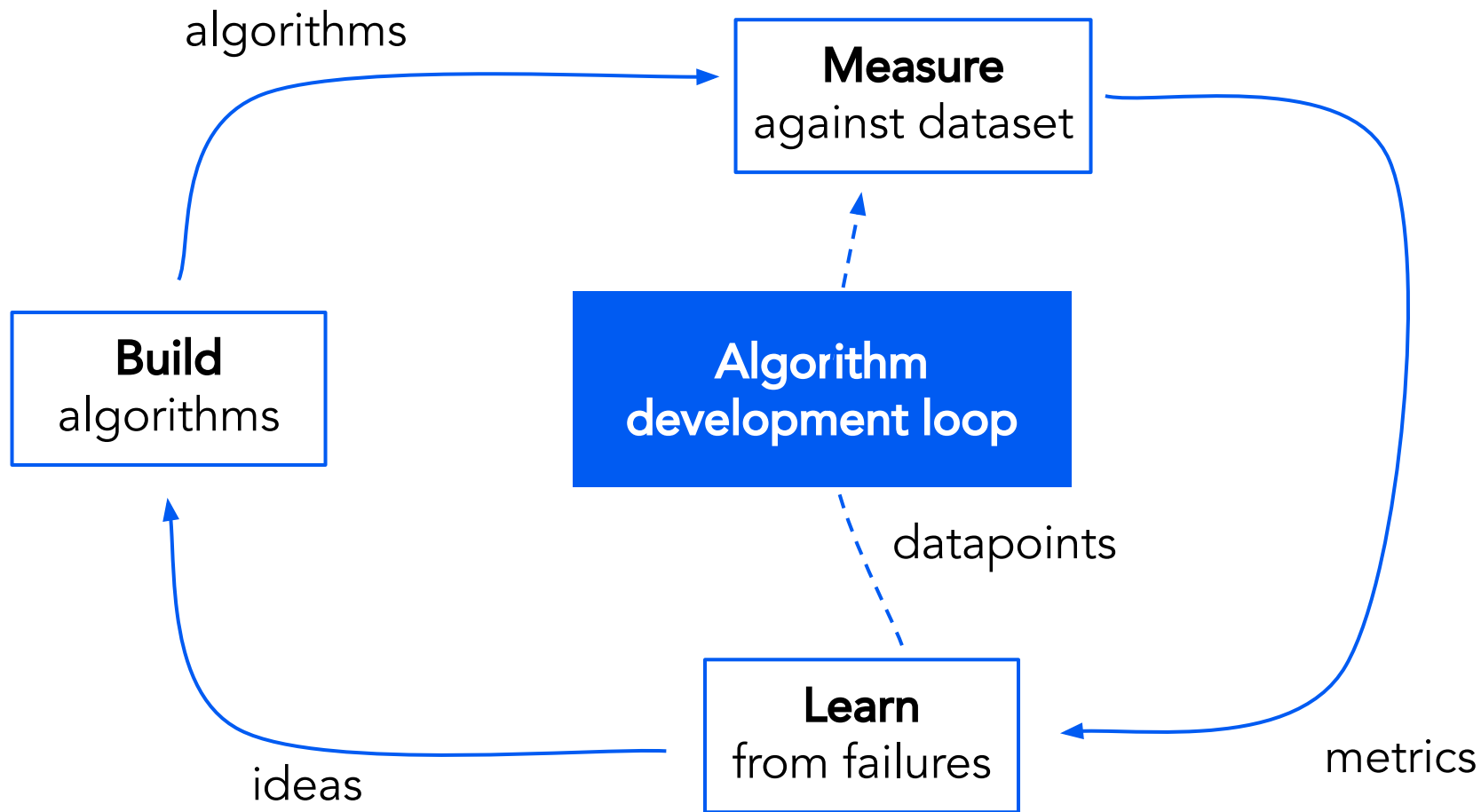


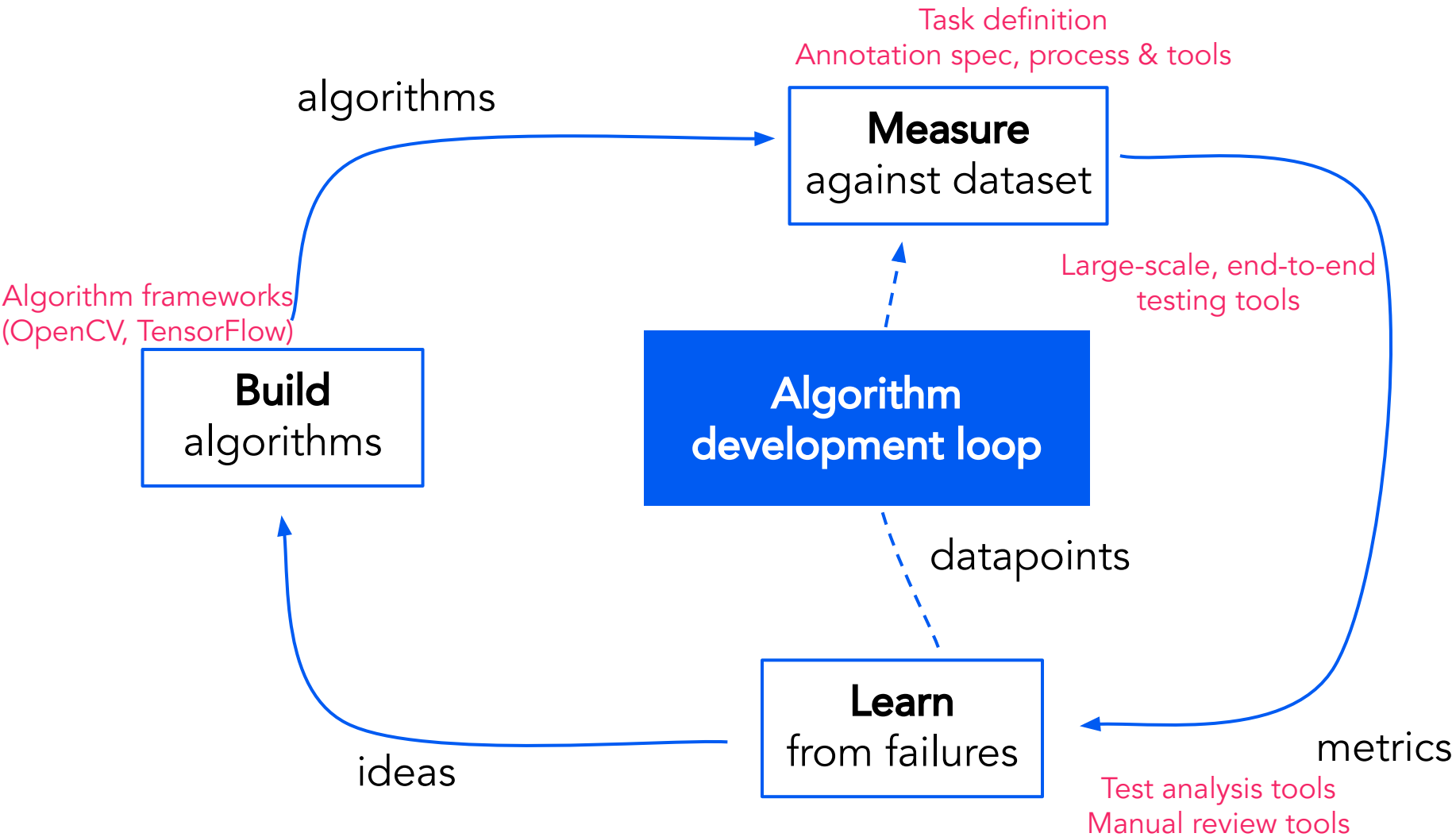
Algorithmic product

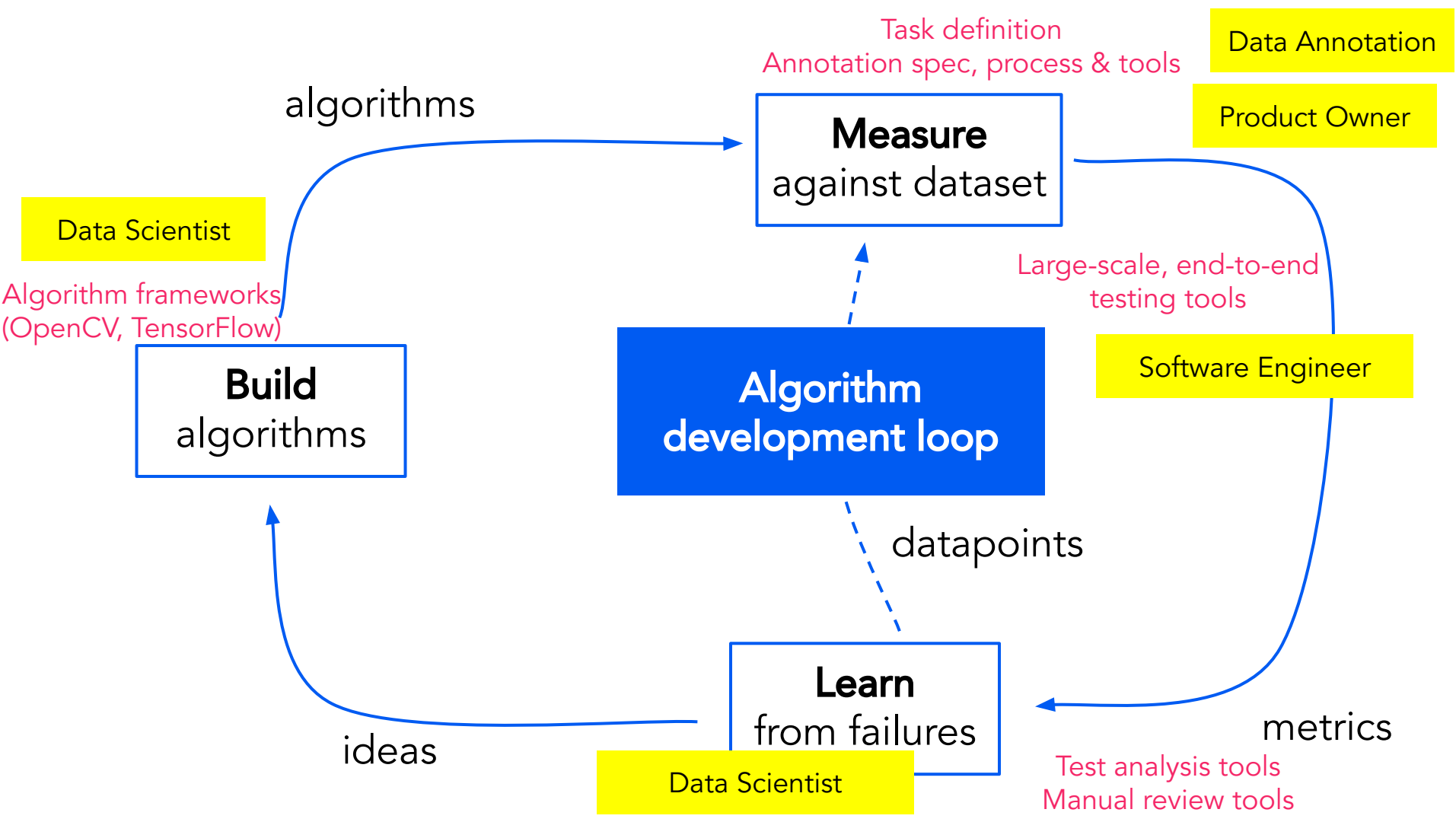




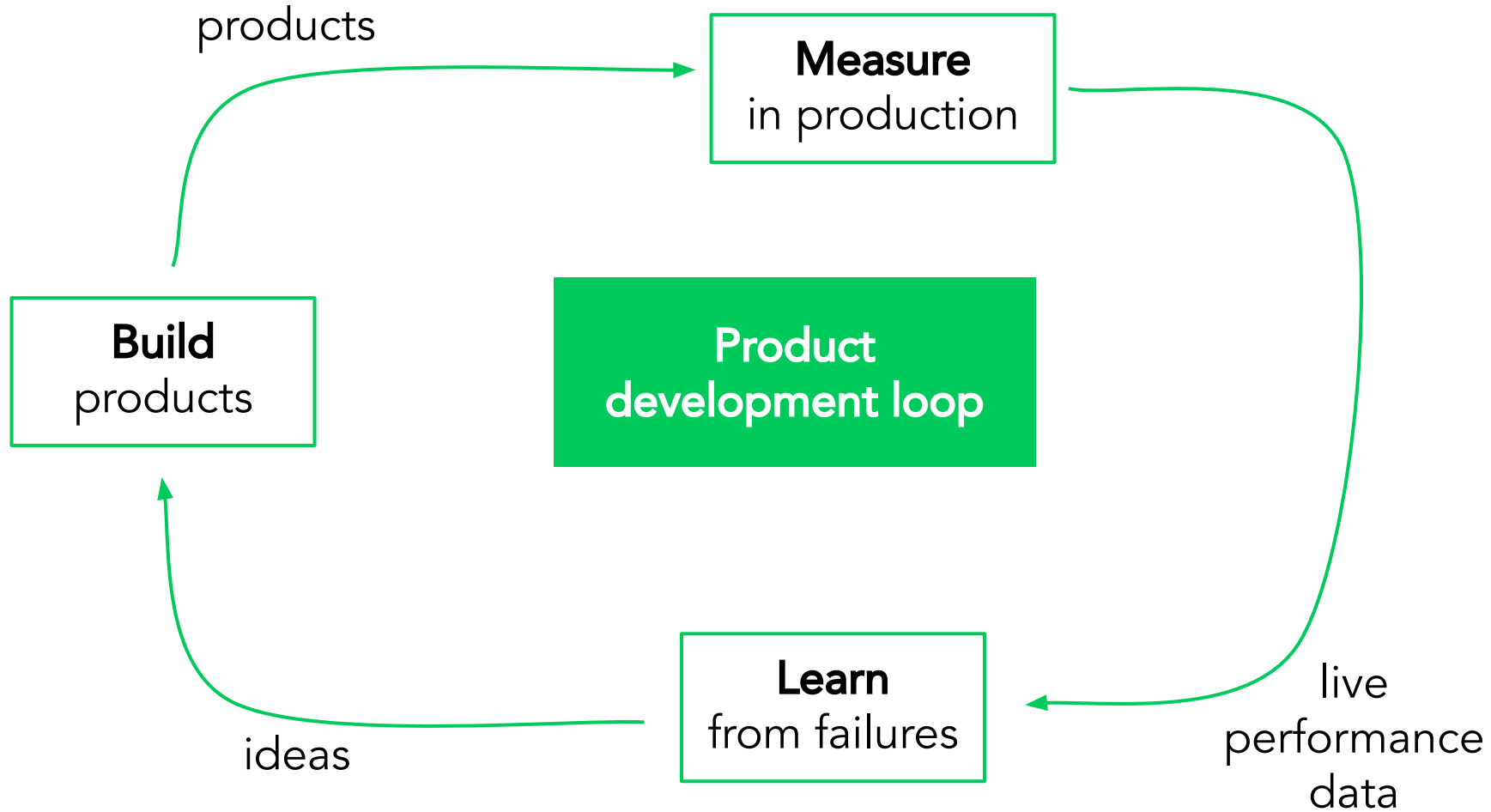
Loop 1: Algorithm development

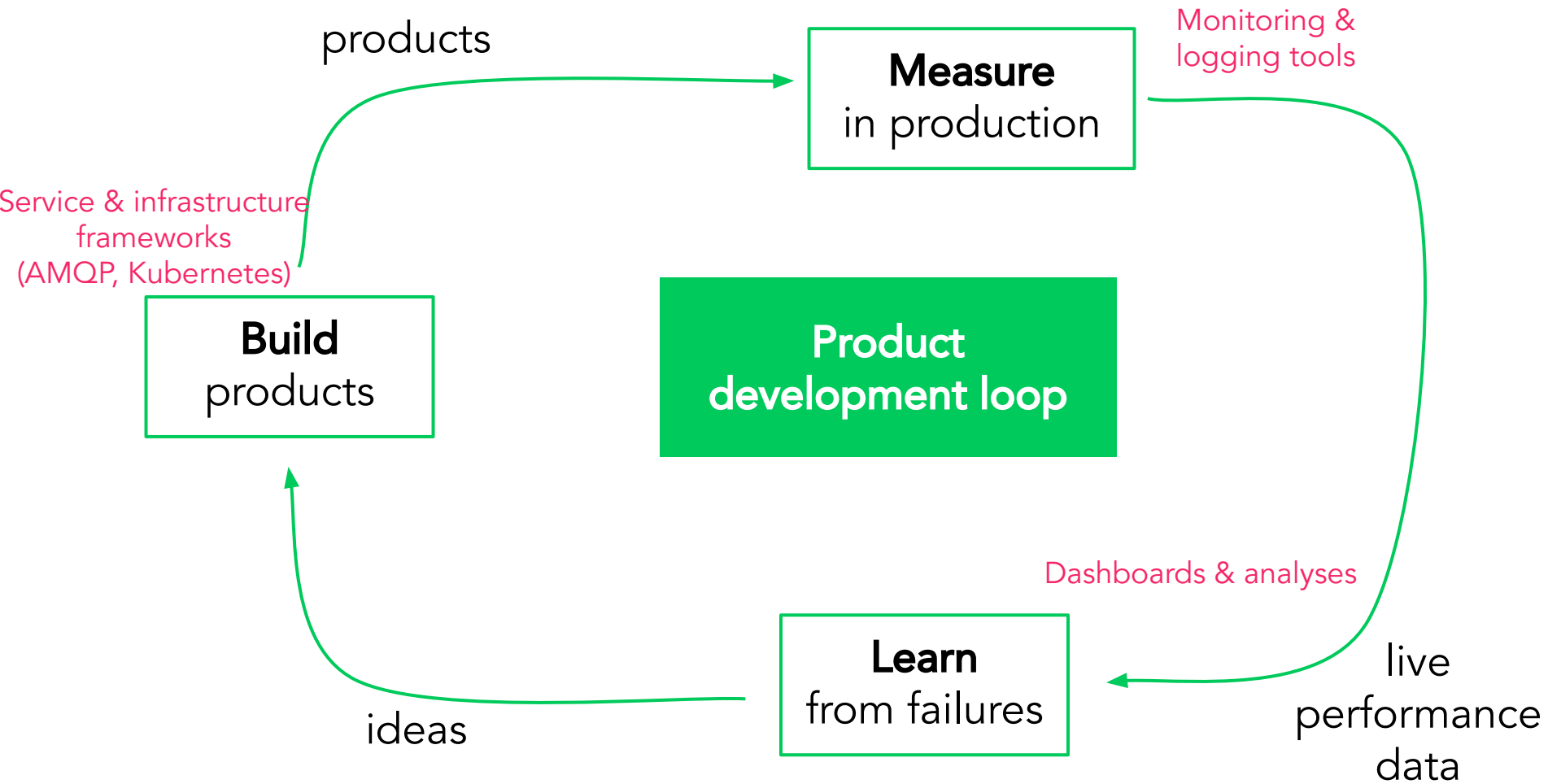


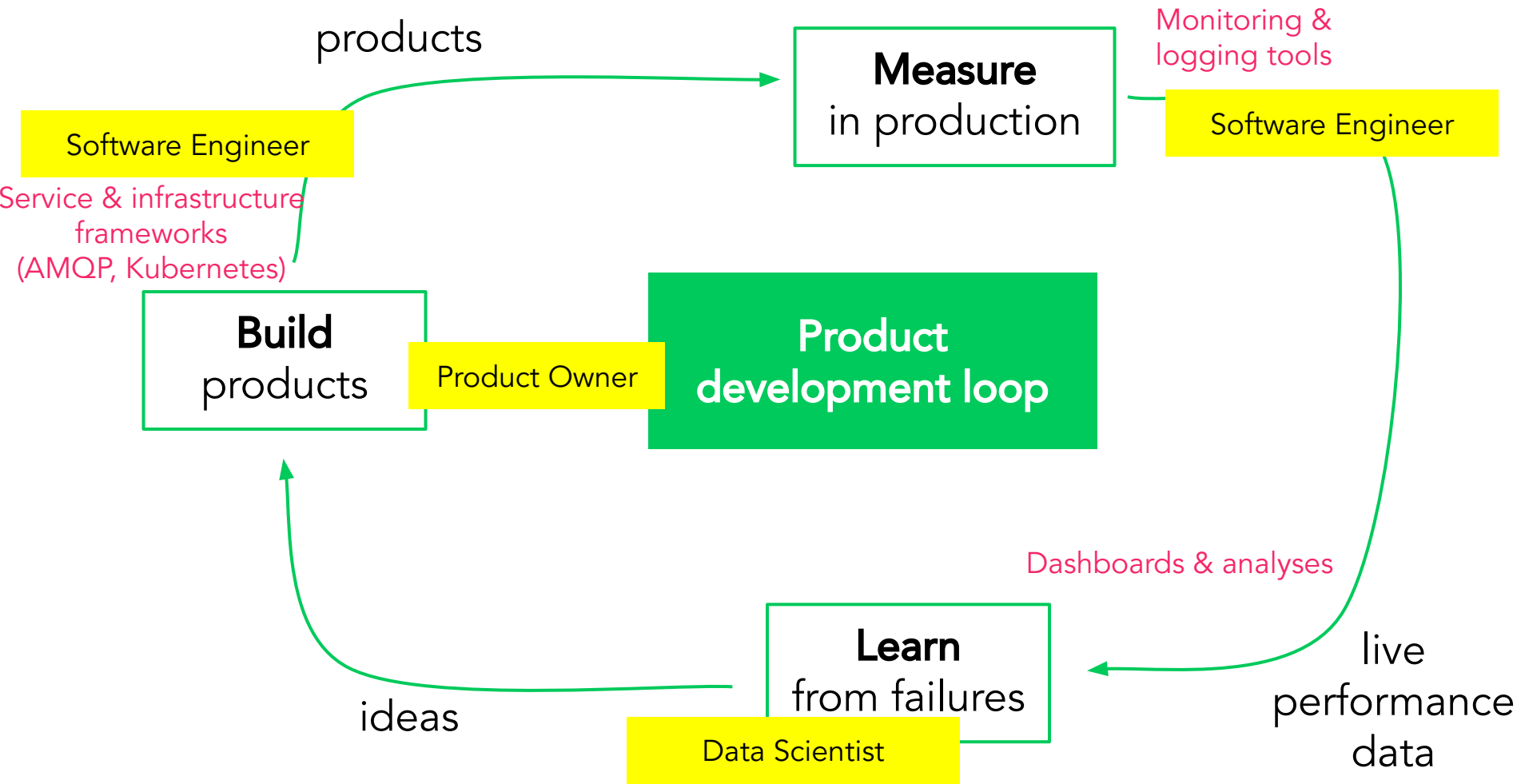




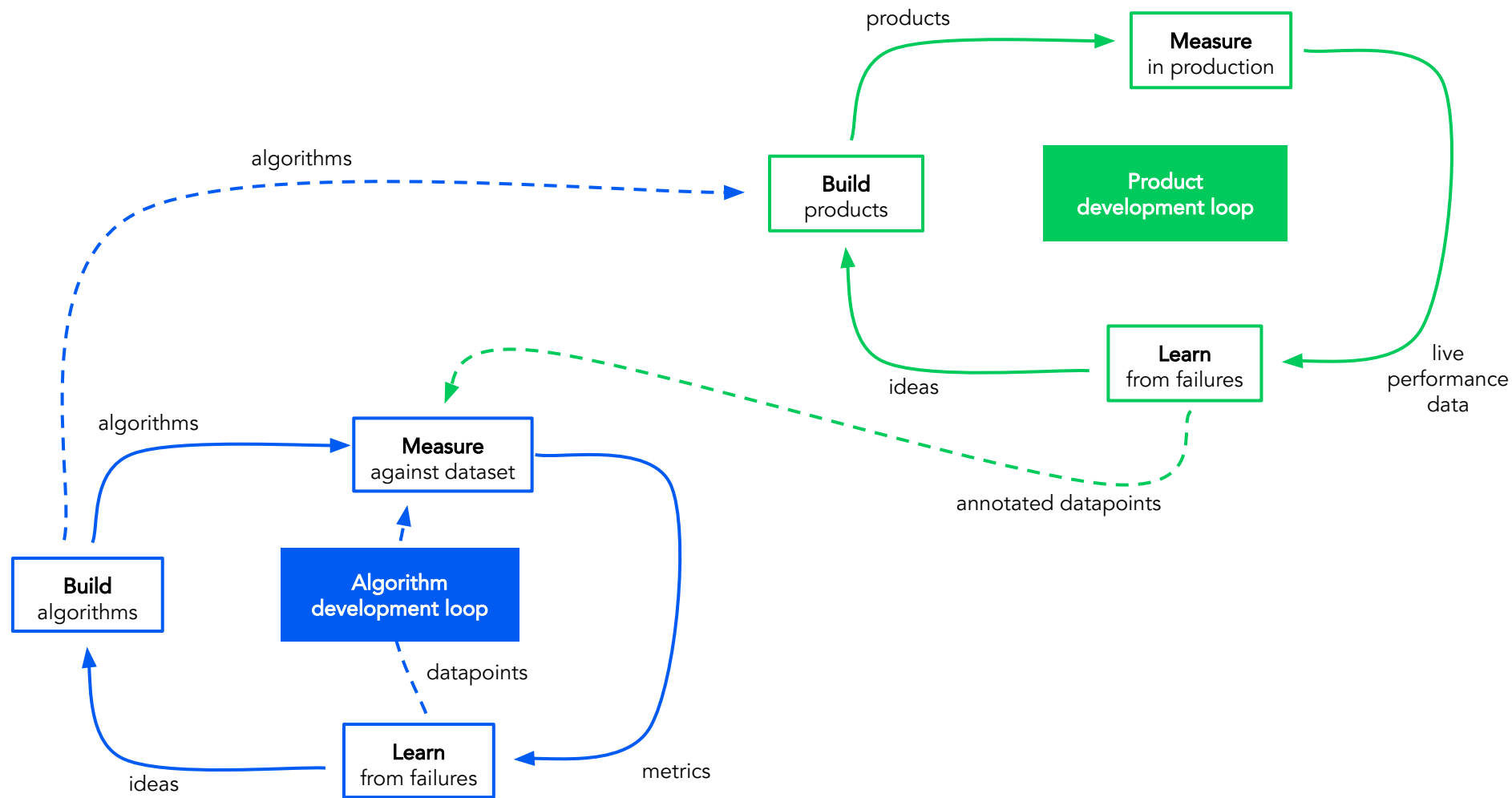
Loop 2: Product development



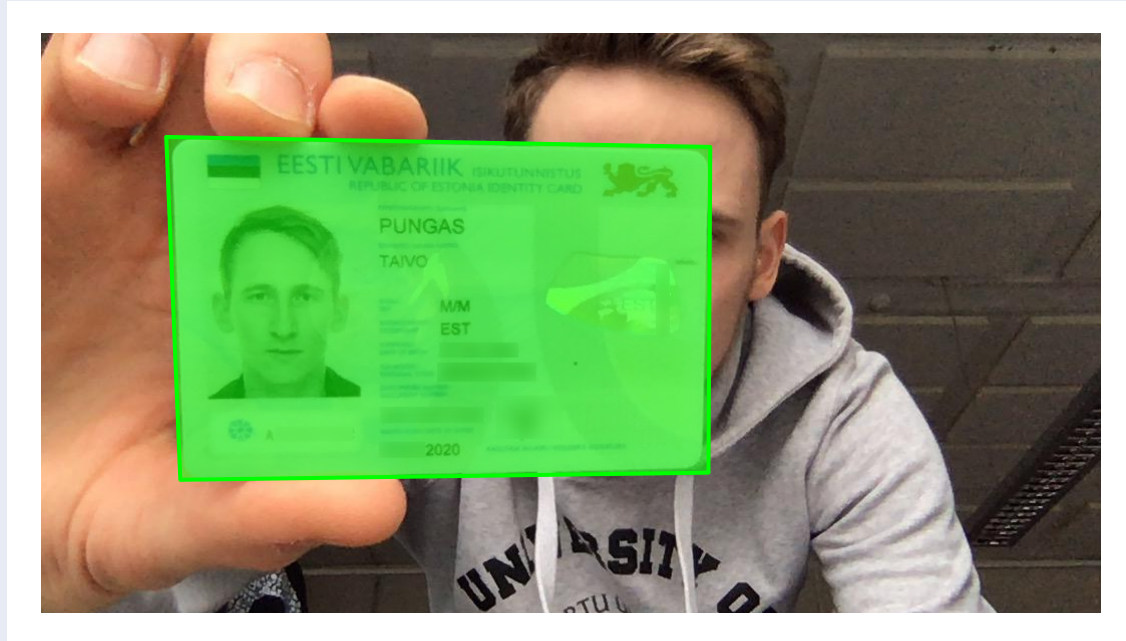




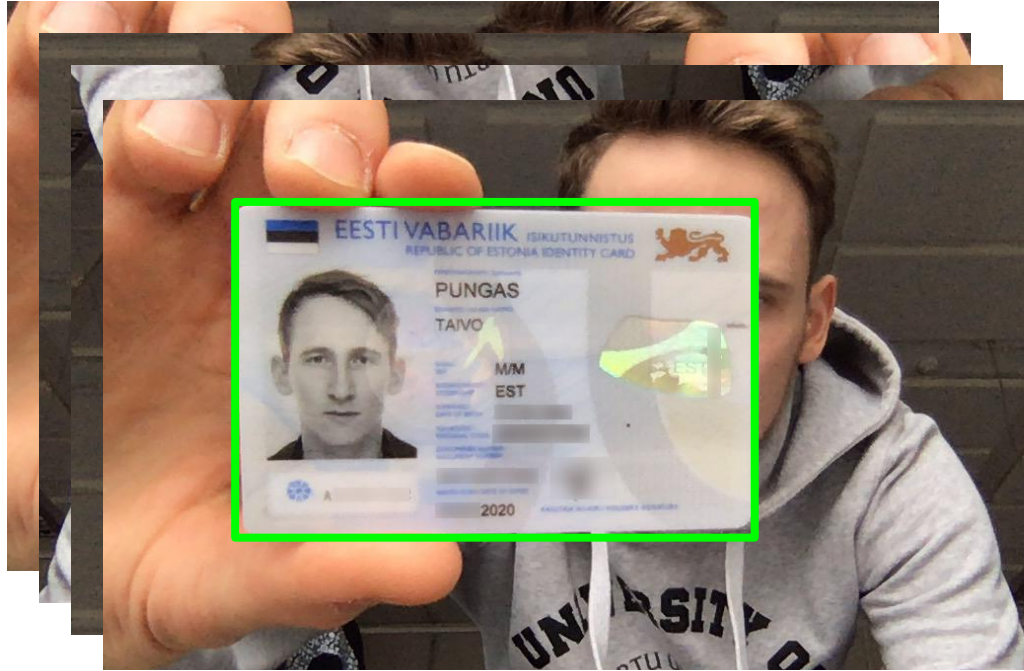
How do the two loops
work together?



Example: document localisation



Step 1: dataset for training CNN

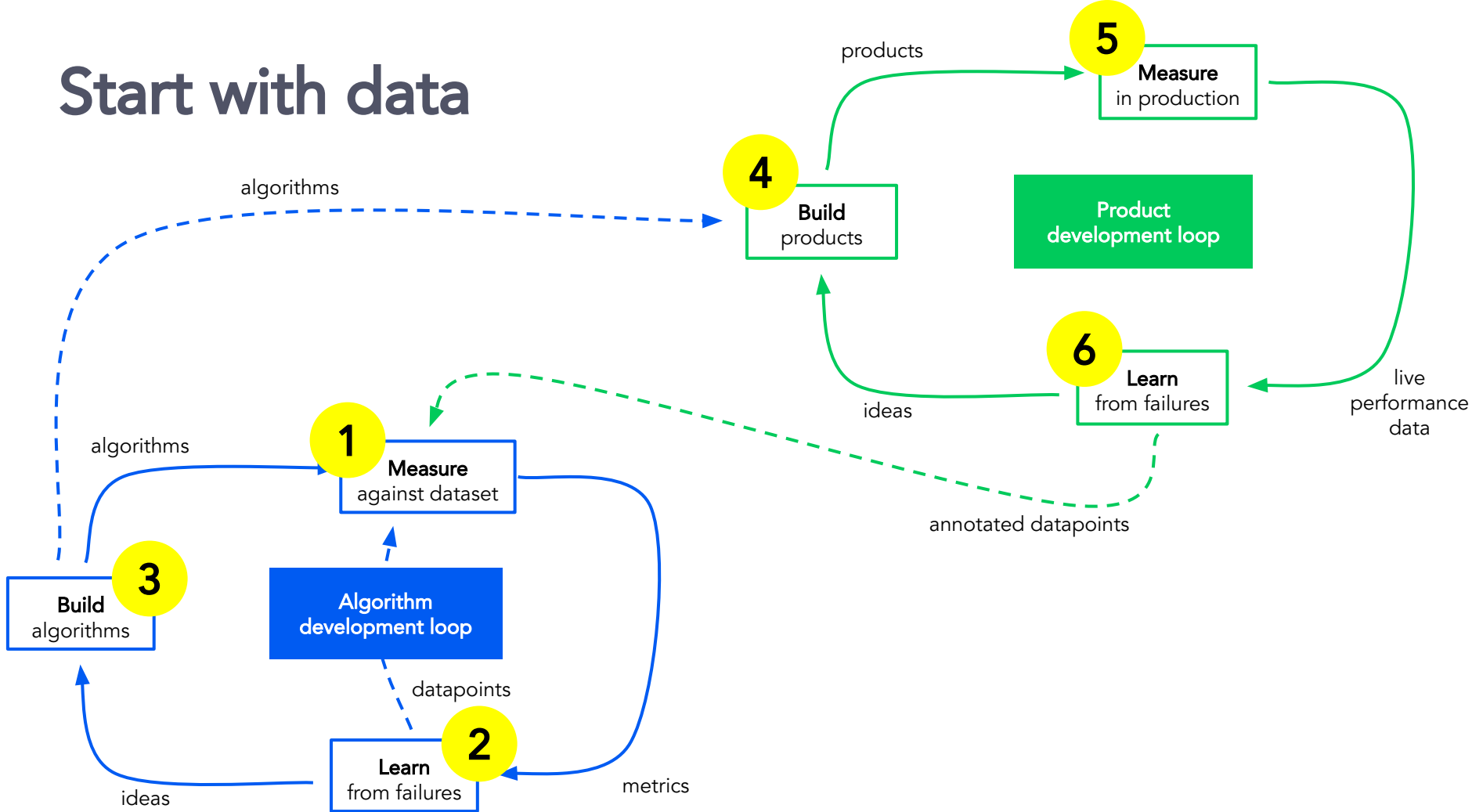


x1000

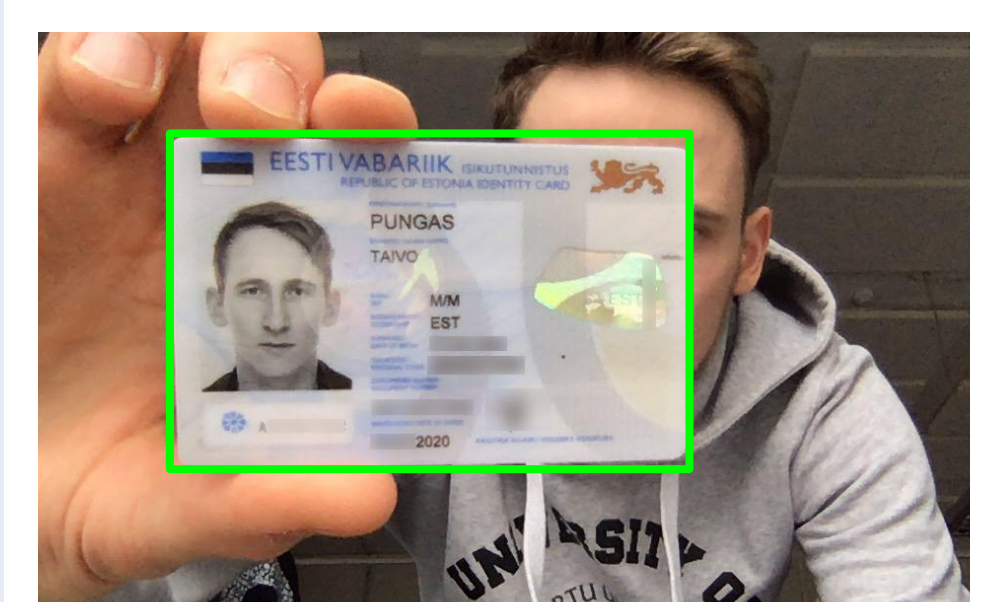
+

 TensorFlow

Start with data

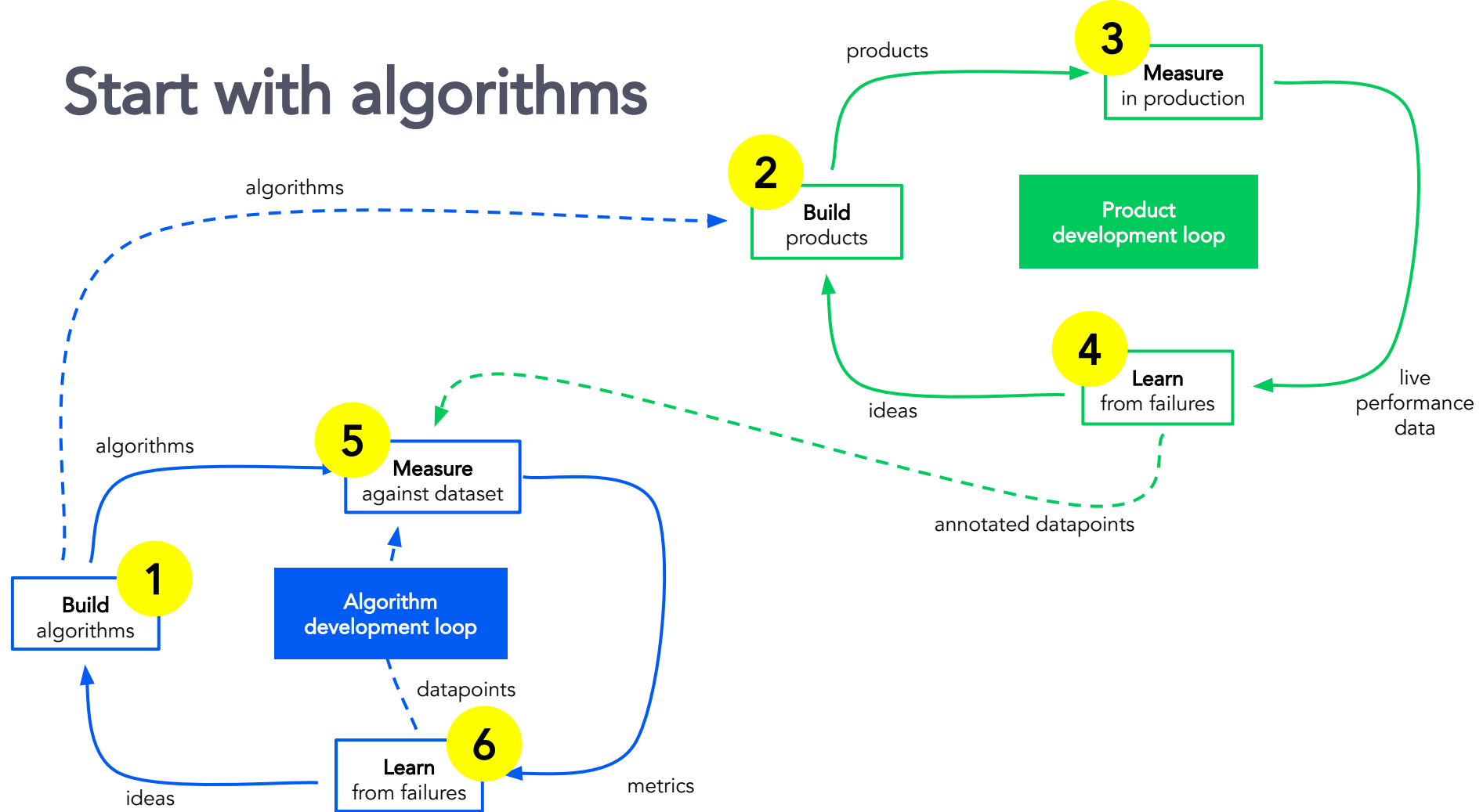


Step 1: two lines of code



```
from skimage.feature import match_template
result = match_template(image, template_image)
```

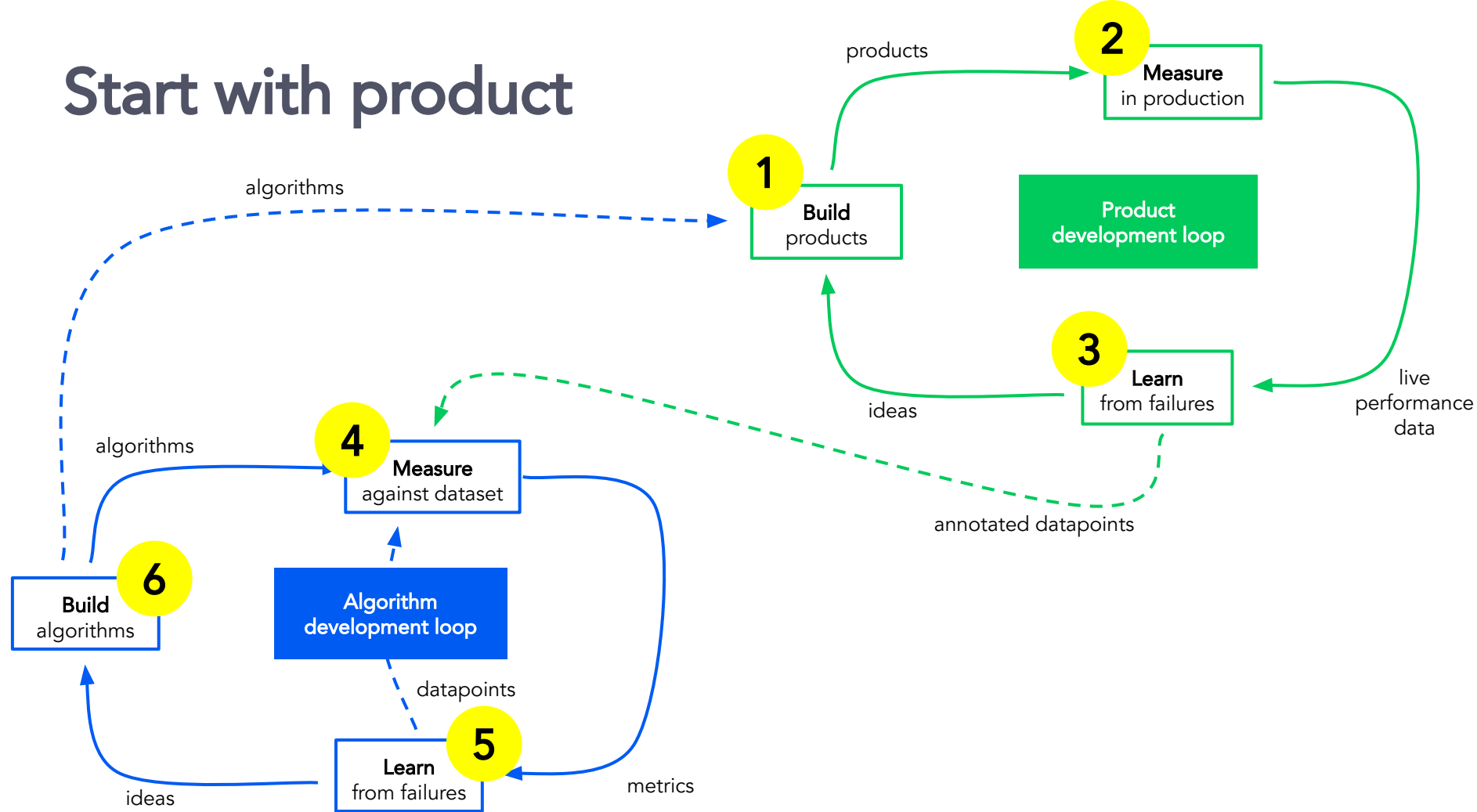

Start with algorithms



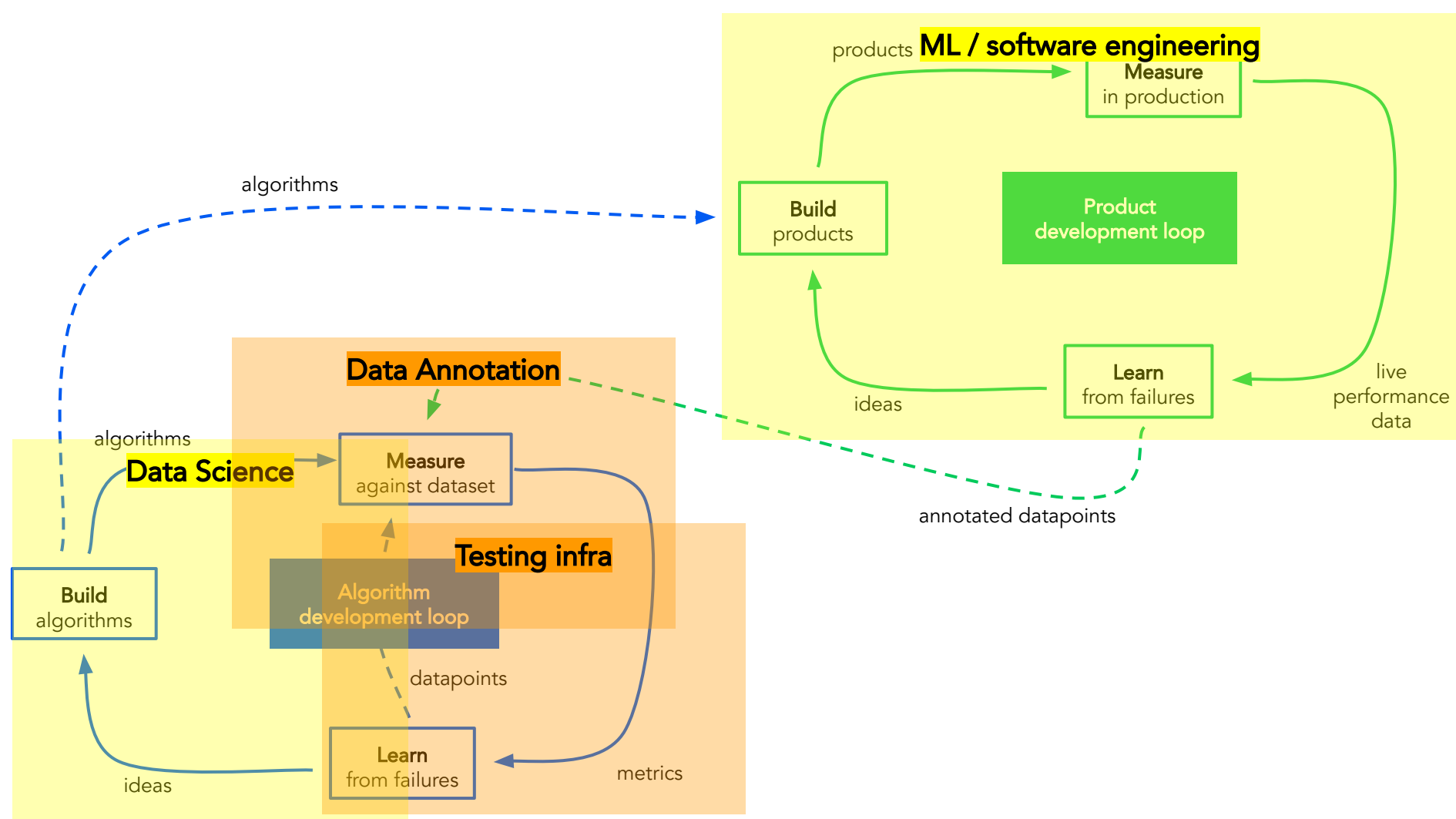
Step 1: 100% human product



Start with product



The hardest part?





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(experimental)

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