Define

Based on data, define problems first,

Choose ideas to test through a clear

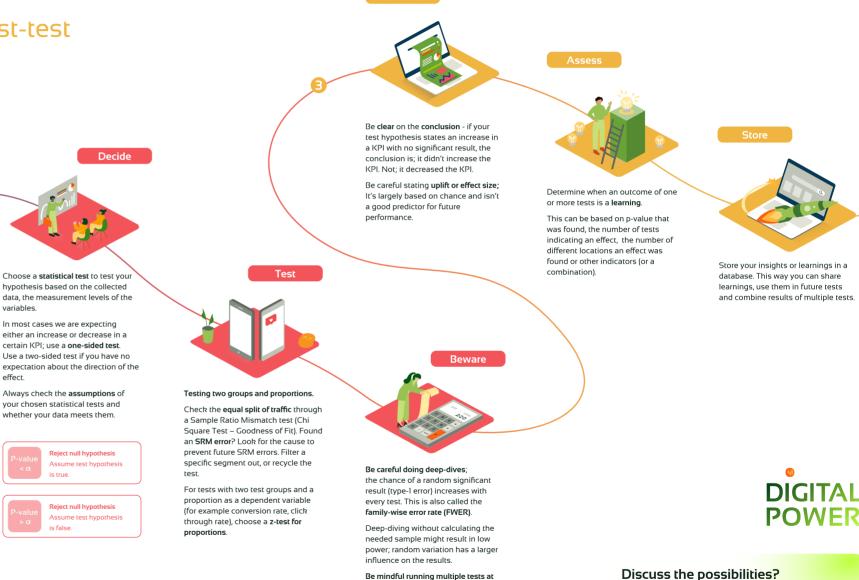
and possible solutions second.

no meaning

a meaning

Data Driven Decision making

Best practices for A/B testing - pre-test, test & post-test



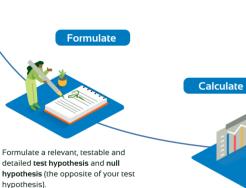
the same time; it could result in

(unintended) interaction effects,

especially when they target the same

audience, funnel, page and/or KPI.

prioritisation model. Choose a relevant and measurable Key Performance indicator for your A/B test. Make sure the measured success (KPI) follows exposure to version A or B, not the other way around. This is also referred to as temporal precedence. Eliminate third variables. If you want to change the text of a CTA, don't hypothesis). change anything else (the location of the button, the color or the size) Use the following hypotheses for test Define the level of measurement for decrease for a relevant KPI the independent (the cause) and (superiority test) dependent (the effect) variables Categorical levels of measurement HI: Test hypothesis [Independent variable with intervention] Nomina Ordinal for [target group] on [page/page group] The order of The order of leads to [more/less] [dependent variable] items has no items has a meaning meaning without intervention] Numeric levels of measurement HI: Null hypothesis Interva Ratio Intervals are Intervals are equal, O is equal, O is not arbitrary and has arbitrary and has



detailed test hypothesis and null hypothesis (the opposite of your test

where you expect an increase or

compared to [independent variable

[Independent variable with intervention] for [target group] on [page/page group] does not lead to [more/less] [dependent variable] compared to [independent variable without intervention]

Choose a statistical test to test your hypothesis based on the collected data, the measurement levels of the variables

either an increase or decrease in a certain KPI: use a one-sided test. Use a two-sided test if you have no expectation about the direction of the effect

Always check the assumptions of your chosen statistical tests and whether your data meets them.

result in no decrease/no increase for a KPI? For example; removing content will not lead to a decrease in sales. Use a non-inferiority approach. Define desired **power** $(1 - \beta)$ and confidence level (1 - a) based on risk

Do you expect that your test will

assessment. Digital Power aims at

80% power, 95% confidence level.

Determine the minimal detectable

effect which, if it truly exists, the test

will be able to detect, which justifies

Pre-calculate the needed traffic/test

duration using minimal detectable

effect (MDE), significance level (α),

effect (MDE). This is the minimal

implementing the change.

power (1 - β)



Discuss the possibilities?

Want to know more about A/B testing best practices? Want to get your A/B testing program to the next level? Call 020 308 43 90 or send an email to info@digital-power.com.

