{r setup, include=FALSE} library(flexdashboard) library(shiny) library(dplyr) library(ggplot2) #library(googleVis)

{r global, include=FALSE} # load data in 'global' chunk so it can be shared by all users of the dashboard df=read.csv("Arya_data_RCF.csv",header = TRUE) library(dplyr) library(ggplot2) source("http://pcwww.liv.ac.uk/~william/R/crosstab.r") df$Agegroup <- cut(df$X2..Age.completed.years., breaks = c(-Inf,35,45,Inf), labels = c("Less than 35 years","35-45 years","More than 45 years")) df$X1..Name.of.the.Tribe=as.factor(df$X1..Name.of.the.Tribe)

Column

Fix the choices

“‘{r} selectInput(“cat_var”, label = “Category:”, choices = colnames(df), selected = “X16..APL.and.BPL.based.on.Color.of.ratio

selectInput(“gr_var”, label = “Grouped by:”, choices = colnames(df), selected = “X1..Name.of.the.Tribe”) sliderInput(“rs_adjust”, label = “Sampling Limit:”, min = 5, max = nrow(df), value = 10, step = 1)

Column{data-width=400}

Percentage of respondents in the subsample with middle age category

```{r}
renderGauge({
    invalidateLater(1000, session)
    dane <- round(mean(sample(df$X2..Age.completed.years.,input$rs_adjust))/60*100,2)
    df <- data.frame(Label = "IRR", Value = as.numeric(dane))
    gauge(dane, min = 0, max = 100, symbol = '%', gaugeSectors(
  success = c(80, 100), warning = c(40, 79), danger = c(0, 39)
))
  })
```

EDA of r renderText(input$cat_var) over the r renderText(input$gr_var).

{r,fig.width=20, fig.height=11} datasel=reactive({df %>% count(.data[[input$cat_var]],.data[[input$gr %>% group_by_at(input$gr_var) %>% mutate(pct= prop.table(n) * 100)}) renderPlot({ ggplot(datasel()) +aes(get(input$gr_var), pct, fill=get(input$cat_var)) + geom_bar(stat="identity") + ylab("percentage") + geom_text(aes(label=paste0(sprintf("%1.1f", pct),"%")), position= +labs(fill=input$cat_var)+ theme_bw() })

Column

Cross Tabulation

{r} renderTable({ datasel() })

Result of χ^2 test

“‘{r} datachisquare <- reactive({ req(input$cat_var, input$gr_var)

```
df %>%
  {
    table(.[[input$cat_var]], .[[input$gr_var]])
  }
```

})

output$results <- renderPrint({

```
print(chisq.test(datachisquare()))
```

}) tableOutput("results") "'

Note: if p-value is less than 0.05, the null hypothesis that no significance difference over grouping variable`r renderText(input$gr_var)` is rejected. So statistically the difference in `r renderText(input$cat_var)` over `r renderText(input$gr_var)` is significant at 5% level. Otherwise the null hypothesis is accepted.