> ggplot(dat, aes(x=CPI, y=HDI)) + geom\_point(aes(color=Region),shape=1,size=3) + theme(legend.position = "top", axis.text=element\_text(size = 6)) + geom\_text\_repel(data=subset(dat,HDI.Rank<50 | CPI>4),aes(label=Country),size=2) + geom\_smooth(color="red",se=FALSE) + ggtitle("Corruption and human development") + labs(x="Corruption Perceptions Index, 2011 (10=least corrupt)",y="Human Development Index, 2011 (1=best)")

ggplot(dat, aes(x=CPI, y=HDI)) + geom\_point(aes(color=Region),shape=21,size=4.5,stroke=2) + geom\_text\_repel(data=subset(dat,HDI.Rank<0 | CPI>10),aes(label=Country),size=3) + geom\_smooth(color="red",se=FALSE,span=1,size=1.25) + ggtitle("Corruption and human development") + labs(x=expression(paste(italic("Corruption Perceptions Index, 2011 (10=least corrupt)"))),y=expression(paste(italic("Human Development Index, 2011 (1=best)")))) + scale\_color\_manual(values=c("Dark Blue","Blue","Light Blue", "Dark Green","Orange","Dark Red")) + theme\_minimal() + theme(legend.position = "top", axis.text=element\_text(size = 6)) + scale\_x\_continuous(limits=c(1,10),breaks=seq(1,10,1)) + scale\_y\_continuous(limits=c(.2,1.0),breaks=seq(.2,1.0,.1)) + labs(captions="Sources:Transparency International; UN Human Development Report") + theme(plot.caption=element\_text(hjust=0)) + theme(axis.line.x = element\_line(),panel.grid.major.y = element\_line(color="Light Gray",size=1),panel.grid.minor.x=element\_blank(),panel.grid.major.x=element\_blank(),panel.grid.minor.y=element\_blank(),axis.text.x = element\_text(size=13,margin=margin(10,5,10,5,"pt")),axis.text.y = element\_text(size=13,margin=margin(5,10,10,5,"pt")),axis.title = element\_text(size=10),axis.ticks.x = element\_line(color="black",size=1,linetype="dashed"),axis.ticks.length = unit(-0.2,"cm"),plot.title = element\_text(size=17,face="bold"),legend.justification = "left",legend.title = element\_blank(),legend.key.width = unit(.5,"cm"),legend.key.size = unit(.5,"lines"), legend.text = element\_text(size=12)) + guides(col=guide\_legend(nrow=1))

ggplot(dat, aes(x=CPI, y=HDI)) + geom\_point(aes(color=Region),shape=21,size=4.5,stroke=2) + geom\_text\_repel(data=(dat2),aes(label=Country),size=3) + geom\_smooth(color="red",se=FALSE,span=1,size=1.25) + ggtitle("Corruption and human development") + labs(x=expression(paste(italic("Corruption Perceptions Index, 2011 (10=least corrupt)"))),y=expression(paste(italic("Human Development Index, 2011 (1=best)")))) + scale\_color\_manual(values=c("Dark Blue","Blue","Light Blue", "Dark Green","Orange","Dark Red")) + theme\_minimal() + theme(legend.position = "top", axis.text=element\_text(size = 6)) + scale\_x\_continuous(limits=c(1,10),breaks=seq(1,10,1)) + scale\_y\_continuous(limits=c(.2,1.0),breaks=seq(.2,1.0,.1)) + labs(captions="Sources:Transparency International; UN Human Development Report") + theme(plot.caption=element\_text(hjust=-.15)) + theme(axis.line.x = element\_line(),panel.grid.major.y = element\_line(color="Light Gray",size=1),panel.grid.minor.x=element\_blank(),panel.grid.major.x=element\_blank(),panel.grid.minor.y=element\_blank(),axis.text.x = element\_text(size=13,margin=margin(10,5,10,5,"pt")),axis.text.y = element\_text(size=13,margin=margin(5,10,10,5,"pt")),axis.title = element\_text(size=10),axis.ticks.x = element\_line(color="black",size=1,linetype="dashed"),axis.ticks.length = unit(-0.2,"cm"),plot.title = element\_text(size=17,face="bold"),legend.justification = c(.1,0), legend.position = c(0,.97), legend.text.align = 10,legend.title = element\_blank(),legend.key.width = unit(.5,"cm"),legend.key.size = unit(.5,"lines"), legend.text = element\_text(size=12)) + guides(col=guide\_legend(nrow=1)) + theme(plot.title = element\_text(hjust=-.15,vjust=3.4))

ggplot(dat, aes(x=CPI, y=HDI)) + geom\_point(aes(color=Region),shape=21,size=4.5,stroke=2) + geom\_text\_repel(data=(dat2),aes(label=Country),size=3,box.padding = .1,point.padding=1,force=1) + geom\_text\_repel(data=subset(dat,X1==114),aes(label=Country),fontface='bold') + geom\_smooth(color="red",se=FALSE,span=1,size=1.25) + ggtitle("Corruption and human development") + labs(x=expression(paste(italic("Corruption Perceptions Index, 2011 (10=least corrupt)"))),y=expression(paste(italic("Human Development Index, 2011 (1=best)")))) + scale\_color\_manual(values=c("Dark Blue","Blue","Light Blue", "Dark Green","Orange","Dark Red")) + theme\_minimal() + theme(legend.position = "top", axis.text=element\_text(size = 6)) + scale\_x\_continuous(limits=c(1,10),breaks=seq(1,10,1)) + scale\_y\_continuous(limits=c(.2,1.0),breaks=seq(.2,1.0,.1)) + labs(captions="Sources:Transparency International; UN Human Development Report") + theme(plot.caption=element\_text(hjust=-.15)) + theme(axis.line.x = element\_line(),panel.grid.major.y = element\_line(color="Light Gray",size=1),panel.grid.minor.x=element\_blank(),panel.grid.major.x=element\_blank(),panel.grid.minor.y=element\_blank(),axis.text.x = element\_text(size=13,margin=margin(10,5,10,5,"pt")),axis.text.y = element\_text(size=13,margin=margin(5,10,10,5,"pt")),axis.title = element\_text(size=10),axis.ticks.x = element\_line(color="black",size=1,linetype="dashed"),axis.ticks.length = unit(-0.2,"cm"),plot.title = element\_text(size=17,face="bold"),legend.justification = c(.1,0), legend.position = c(0,.97), legend.text.align = 10,legend.title = element\_blank(),legend.key.width = unit(.5,"cm"),legend.key.size = unit(.5,"lines"), legend.text = element\_text(size=12)) + guides(col=guide\_legend(nrow=1)) + theme(plot.title = element\_text(hjust=-.15,vjust=3.4))

ggplot(dat3, aes(x=CPI, y=HDI)) + geom\_point(aes(color=Region),shape=21,size=3,stroke=2) + geom\_smooth(color="red",se=FALSE,span=1,size=1.25) + ggtitle("Corruption and human development") + labs(x=expression(paste(italic("Corruption Perceptions Index, 2011 (10=least corrupt)"))),y=expression(paste(italic("Human Development Index, 2011 (1=best)")))) + scale\_color\_manual(values=c("Dark Blue","Blue","Light Blue", "Dark Green","Orange","Dark Red")) + theme\_minimal() + theme(legend.position = "top", axis.text=element\_text(size = 6)) + scale\_x\_continuous(limits=c(1,10),breaks=seq(1,10,1)) + scale\_y\_continuous(limits=c(.2,1.0),breaks=seq(.2,1.0,.1)) + labs(captions="Sources:Transparency International; UN Human Development Report") + theme(plot.caption=element\_text(hjust=-.15)) + theme(axis.line.x = element\_line(),panel.grid.major.y = element\_line(color="Light Gray",size=1),panel.grid.minor.x=element\_blank(),panel.grid.major.x=element\_blank(),panel.grid.minor.y=element\_blank(),axis.text.x = element\_text(size=13,margin=margin(10,5,10,5,"pt")),axis.text.y = element\_text(size=13,margin=margin(5,10,10,5,"pt")),axis.title = element\_text(size=10),axis.ticks.x = element\_line(color="black",size=1,linetype="dashed"),axis.ticks.length = unit(-0.2,"cm"),plot.title = element\_text(size=17,face="bold"),legend.justification = c(.1,0), legend.position = c(0,.97), legend.text.align = 10,legend.title = element\_blank(),legend.key.width = unit(.5,"cm"),legend.key.size = unit(.5,"lines"), legend.text = element\_text(size=8)) + guides(col=guide\_legend(nrow=1)) + theme(plot.title = element\_text(hjust=-.24,vjust=3.4)) + theme(plot.margin = unit(c(1.5,1.5,1,1),"cm")) + geom\_text\_repel(data=subset(dat3,X1==114),aes(label=Country),fontface='bold', nudge\_x = 10, nudge\_y = .03, size = 3, segment.color = "white")

ggplot(dat3, aes(x=CPI, y=HDI)) + geom\_point(aes(color=Region),shape=21,size=3,stroke=2) + geom\_smooth(color="red",se=FALSE,span=1,size=1.25) + ggtitle("Corruption and human development") + labs(x=expression(paste(italic("Corruption Perceptions Index, 2011 (10=least corrupt)"))),y=expression(paste(italic("Human Development Index, 2011 (1=best)")))) + theme\_minimal() + theme(legend.position = "top", axis.text=element\_text(size = 6)) + scale\_x\_continuous(limits=c(1,10),breaks=seq(1,10,1)) + scale\_y\_continuous(limits=c(.2,1.0),breaks=seq(.2,1.0,.1)) + labs(captions="Sources:Transparency International; UN Human Development Report") + theme(plot.caption=element\_text(hjust=-.15)) + theme(axis.line.x = element\_line(),panel.grid.major.y = element\_line(color="Light Gray",size=1),panel.grid.minor.x=element\_blank(),panel.grid.major.x=element\_blank(),panel.grid.minor.y=element\_blank(),axis.text.x = element\_text(size=13,margin=margin(10,5,10,5,"pt")),axis.text.y = element\_text(size=13,margin=margin(5,10,10,5,"pt")),axis.title = element\_text(size=10),axis.ticks.x = element\_line(color="black",size=1,linetype="dashed"),axis.ticks.length = unit(-0.2,"cm"),plot.title = element\_text(size=17,face="bold"),legend.justification = c(.1,0), legend.position = c(0,.97), legend.text.align = 10,legend.title = element\_blank(),legend.key.width = unit(.5,"cm"),legend.key.size = unit(.5,"lines"), legend.text = element\_text(size=8)) + guides(col=guide\_legend(nrow=1)) + theme(plot.title = element\_text(hjust=-.355,vjust=3.4)) + theme(plot.margin = unit(c(1,1,1,1),"cm")) + scale\_colour\_manual(values=c("Blue","Light Blue","Dark Green", "Orange","Dark Blue","Dark Red"),breaks=c("OECD","Americas","Asia & Oceania","Central & Eastern Europe","Middle East & north Africa","Sub-Saharan Africa")) + geom\_text\_repel(data=subset(dat3,X1==114),aes(label=Country),fontface='bold', nudge\_x = 10, nudge\_y = .03, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==140),aes(label=Country), nudge\_x = .5, nudge\_y = -.02, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==118),aes(label=Country), nudge\_x = 0, nudge\_y = .03, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==80),aes(label=Country), nudge\_x = .3, nudge\_y = -.06, size = 3, segment.color = "Black") + geom\_text\_repel(data=subset(dat3,X1==60),aes(label=Country), nudge\_x = 0, nudge\_y = .065, size = 3, segment.color = "Black") + geom\_text\_repel(data=subset(dat3,X1==13),aes(label=Country), nudge\_x = .5, nudge\_y = -.02, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==22),aes(label=Country), nudge\_x = -.1, nudge\_y = -.025, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==166),aes(label=Country), nudge\_x = 0, nudge\_y = .03, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==56),aes(label=Country), nudge\_x = -.5, nudge\_y = .06, size = 3, segment.color = "Black") + geom\_text\_repel(data=subset(dat3,X1==145),aes(label=Country), nudge\_x = -.5, nudge\_y = .065, size = 3, segment.color = "Black") + geom\_text\_repel(data=subset(dat3,X1==20),aes(label=Country), nudge\_x = .6, nudge\_y = .02, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==29),aes(label=Country), nudge\_x = .7, nudge\_y = .005, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==17),aes(label=Country), nudge\_x = .5, nudge\_y = 0, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==131),aes(label=Country), nudge\_x = .5, nudge\_y = .01, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==144),aes(label=Country), nudge\_x = .5, nudge\_y = -.04, size = 3, segment.color = "Black") + geom\_text\_repel(data=subset(dat3,X1==33),aes(label=Country), nudge\_x = .7, nudge\_y = -.025, size = 3, segment.color = "Black") + geom\_text\_repel(data=subset(dat3,X1==78),aes(label=Country), nudge\_x = 0, nudge\_y = .04, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==62),aes(label=Country), nudge\_x = -.45, nudge\_y = .01, size = 3, segment.color = NA)

ggplot(dat3, aes(x=CPI, y=HDI)) +

geom\_point(aes(color=Region),shape=21,size=3,stroke=2) + geom\_smooth(color="red",se=FALSE,span=1,size=1.25) +

ggtitle("Corruption and human development") +

labs(x=expression(paste(italic("Corruption Perceptions Index, 2011 (10=least corrupt)"))),y=expression(paste(italic("Human Development Index, 2011 (1=best)")))) +

theme\_minimal() + theme(legend.position = "top", axis.text=element\_text(size = 6)) + scale\_x\_continuous(limits=c(1,10),breaks=seq(1,10,1)) + scale\_y\_continuous(limits=c(.2,1.0),breaks=seq(.2,1.0,.1)) +

labs(captions="Sources:Transparency International; UN Human Development Report") + theme(plot.caption=element\_text(hjust=-.15)) +

theme(axis.line.x = element\_line(),panel.grid.major.y = element\_line(color="Light Gray",size=1),panel.grid.minor.x=element\_blank(),panel.grid.major.x=element\_blank(),panel.grid.minor.y=element\_blank(),axis.text.x = element\_text(size=13,margin=margin(10,5,10,5,"pt")),axis.text.y = element\_text(size=13,margin=margin(5,10,10,5,"pt")),axis.title = element\_text(size=10),axis.ticks.x = element\_line(color="black",size=1,linetype="dashed"),axis.ticks.length = unit(-0.2,"cm"),plot.title = element\_text(size=17,face="bold"),legend.justification = c(.1,0), legend.position = c(0,.97), legend.text.align = 10,legend.title = element\_blank(),legend.key.width = unit(.5,"cm"),legend.key.size = unit(.5,"lines"), legend.text = element\_text(size=8)) + guides(col=guide\_legend(nrow=1)) + theme(plot.title = element\_text(hjust=-.235,vjust=3.4)) +

theme(plot.margin = unit(c(1,1,1,1),"cm")) + scale\_colour\_manual(values=c("Blue","Light Blue","Dark Green", "Orange","Dark Blue","Dark Red"),breaks=c("OECD","Americas","Asia & Oceania","Central & Eastern Europe","Middle East & north Africa","Sub-Saharan Africa")) + geom\_text\_repel(data=subset(dat3,X1==114),aes(label=Country), nudge\_x = 10, nudge\_y = .03, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==140),aes(label=Country), nudge\_x = .5, nudge\_y = -.02, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==118),aes(label=Country), nudge\_x = 0, nudge\_y = .03, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==80),aes(label=Country), nudge\_x = .3, nudge\_y = -.06, size = 3, segment.color = "Black") +

geom\_text\_repel(data=subset(dat3,X1==60),aes(label=Country), nudge\_x = 0, nudge\_y = .065, size = 3, segment.color = "Black") +

geom\_text\_repel(data=subset(dat3,X1==13),aes(label=Country), nudge\_x = .5, nudge\_y = -.02, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==22),aes(label=Country), nudge\_x = -.1, nudge\_y = -.025, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==166),aes(label=Country),fontface='bold', nudge\_x = 0, nudge\_y = .03, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==56),aes(label=Country), nudge\_x = -.5, nudge\_y = .06, size = 3, segment.color = "Black") +

geom\_text\_repel(data=subset(dat3,X1==145),aes(label=Country), nudge\_x = -.5, nudge\_y = .065, size = 3, segment.color = "Black") +

geom\_text\_repel(data=subset(dat3,X1==20),aes(label=Country), nudge\_x = .6, nudge\_y = .02, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==29),aes(label=Country), nudge\_x = .7, nudge\_y = .005, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==17),aes(label=Country), nudge\_x = .5, nudge\_y = 0, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==131),aes(label=Country), nudge\_x = .5, nudge\_y = .01, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==144),aes(label=Country), nudge\_x = .5, nudge\_y = -.04, size = 3, segment.color = "Black") +

geom\_text\_repel(data=subset(dat3,X1==33),aes(label=Country), nudge\_x = .7, nudge\_y = -.025, size = 3, segment.color = "Black") +

geom\_text\_repel(data=subset(dat3,X1==78),aes(label=Country), nudge\_x = 0, nudge\_y = .04, size = 3, segment.color = NA) + geom\_text\_repel(data=subset(dat3,X1==62),aes(label=Country), nudge\_x = -.45, nudge\_y = .01, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==5),aes(label=Country), nudge\_x = -.45, nudge\_y = .03, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==72),aes(label=Country), nudge\_x = .35, nudge\_y = 0, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==130),aes(label=Country), nudge\_x = -.7, nudge\_y = .07, size = 3, segment.color = "Black") +

geom\_text\_repel(data=subset(dat3,X1==170),aes(label=Country), nudge\_x = -.65, nudge\_y = .01, size = 3, segment.color = NA)+

geom\_text\_repel(data=subset(dat3,X1==75),aes(label=Country), nudge\_x = -.3, nudge\_y = .015, size = 3, segment.color = NA) +

geom\_text\_repel(data=subset(dat3,X1==110),aes(label=Country), nudge\_x = -.2, nudge\_y = .03, size = 3, segment.color = NA)+

geom\_text\_repel(data=subset(dat3,X1==147),aes(label=Country), nudge\_x = -.3, nudge\_y = .025, size = 3, segment.color = NA)+

geom\_text\_repel(data=subset(dat3,X1==1),aes(label=Country), nudge\_x = -.3, nudge\_y = -.025, size = 3, segment.color = NA)+

geom\_text\_repel(data=subset(dat3,X1==36),aes(label=Country), nudge\_x = -.2, nudge\_y = -.005, size = 3, segment.color = NA) + annotate("text",x=10,y=1,label="R2=56%",size=3,vjust=-1.3)