

In[29]:= wojewodztwa = ;

In[766]:= max = Max[Max[pm2513], Max[pm2514], Max[pm2515], Max[pm2516], Max[pm2517]];

```
pm2513 = {25, 17, 28, 21, 21, 33, 25, 28, 26, 23, 18, 32, 26, 6, 26, 15};
pm2513liczba = Table[pm2513[[i]]/max, {i, 1, Length[pm2513]}];
kolory2513 = Table[RGBColor[0.2, 1 - pm2513liczba[[t]], 1 - pm2513liczba[[t]]], {t, 1, 16}];
p2513 = Table[{GeoStyling[None], kolory2513[[i]], Polygon[wojewodztwa[[i]]], {i, 1, 16}}];
map2513 = Labeled[Legended[GeoGraphics[{p2513}], GeoBackground -> None, ImageSize -> 600],
BarLegend[{{Blend[{Sort[kolory2513][[16]], Sort[kolory2513][[1]]], # / Reverse[Sort[pm2513][[1]]] &},
{Reverse[Sort[pm2513][[16]], Reverse[Sort[pm2513][[1]]]}]],
Text[Style["PM 2,5 - rok 2013 ( $\mu\text{g}/\text{m}^3$ )", 40], Top];
```

```
pm2514 = {23, 21, 28, 24, 21, 32, 27, 26, 24, 21, 22, 31, 26, 17, 27, 20};
pm2514liczba = Table[pm2514[[i]]/max, {i, 1, Length[pm2514]}];
kolory2514 = Table[RGBColor[0.2, 1 - pm2514liczba[[t]], 1 - pm2514liczba[[t]]], {t, 1, 16}];
p2514 = Table[{GeoStyling[None], kolory2514[[i]], Polygon[wojewodztwa[[i]]], {i, 1, 16}}];
map2514 = Labeled[Legended[GeoGraphics[{p2514}], GeoBackground -> None, ImageSize -> 600],
BarLegend[{{Blend[{Sort[kolory2514][[16]], Sort[kolory2514][[1]]], # / Reverse[Sort[pm2513][[1]]] &},
{Reverse[Sort[pm2514][[16]], Reverse[Sort[pm2514][[1]]]}]],
Text[Style["PM 2,5 - rok 2014 ( $\mu\text{g}/\text{m}^3$ )", 40], Top];
```

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pm2515 = {21, 20, 25, 25, 19, 32, 25, 23, 25, 21, 18, 28, 23, 16, 27, 16};
pm2515liczba = Table[pm2515[[i]]/max, {i, 1, Length[pm2515]}];
kolory2515 = Table[RGBColor[0.2, 1 - pm2515liczba[[t]], 1 - pm2515liczba[[t]]], {t, 1, 16}];
p2515 = Table[{GeoStyling[None], kolory2515[[i]], Polygon[wojewodztwa[[i]]], {i, 1, 16}}];
map2515 = Labeled[Legended[GeoGraphics[{p2515}], GeoBackground -> None, ImageSize -> 600],
BarLegend[{{Blend[{Sort[kolory2515][[16]], Sort[kolory2515][[1]]], # / Reverse[Sort[pm2513][[1]]] &},
{Reverse[Sort[pm2515][[16]], Reverse[Sort[pm2515][[1]]]}]],
Text[Style["PM 2,5 - rok 2015 ( $\mu\text{g}/\text{m}^3$ )", 40], Top];
```

```
pm2516 = {22, 20, 23, 23, 20, 29, 23, 23, 19, 17, 28, 21, 15, 27, 16};
pm2516liczba = Table[pm2516[[i]]/max, {i, 1, Length[pm2516]}];
kolory2516 = Table[RGBColor[0.2, 1 - pm2516liczba[[t]], 1 - pm2516liczba[[t]]], {t, 1, 16}];
p2516 = Table[{GeoStyling[None], kolory2516[[i]], Polygon[wojewodztwa[[i]]], {i, 1, 16}}];
map2516 = Labeled[Legended[GeoGraphics[{p2516}], GeoBackground -> None, ImageSize -> 600],
BarLegend[{{Blend[{Sort[kolory2516][[16]], Sort[kolory2516][[1]]], # / Reverse[Sort[pm2513][[1]]] &},
{Reverse[Sort[pm2516][[16]], Reverse[Sort[pm2516][[1]]]}]],
Text[Style["PM 2,5 - rok 2016 ( $\mu\text{g}/\text{m}^3$ )", 40], Top];
```

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pm2517 = {21, 19, 27, 23, 20, 30, 24, 23, 24, 16, 17, 29, 23, 16, 25, 17};
pm2517liczba = Table[pm2517[[i]]/max, {i, 1, Length[pm2517]}];
kolory2517 = Table[RGBColor[0.2, 1 - pm2517liczba[[t]], 1 - pm2517liczba[[t]]], {t, 1, 16}];
p2517 = Table[{GeoStyling[None], kolory2517[[i]], Polygon[wojewodztwa[[i]]], {i, 1, 16}}];
map2517 = Labeled[Legended[GeoGraphics[{p2517}], GeoBackground -> None, ImageSize -> 600],
BarLegend[{{Blend[Sort[kolory2517][[16]], Sort[kolory2517][[1]], #/Reverse[Sort[pm2517][[1]]] &),
{Reverse[Sort[pm2517][[16]], Reverse[Sort[pm2517][[1]]]}]],
Text[Style["PM 2,5 - rok 2017 ( $\mu\text{g}/\text{m}^3$ )", 40], Top];

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In[738]:= pm25 = {map2513, map2514, map2515, map2516, map2517};
CloudExport[pm25, "PDF"]

```

```

Out[739]= CloudObject[https://www.wolframcloud.com/obj/a877c41c-cd7b-41b0-a939-7b2951126710]

```

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In[60]:= CloudExport[pm25, "gif", AnimationRepetitions -> Infinity, AnimationRate -> 0.0001]

```

```

Out[60]= CloudObject[https://www.wolframcloud.com/obj/86e92210-bd04-476e-bd86-e62a2e922931]

```

```

In[682]:= pm25gif = {map2513, map2513, map2513, map2513, map2513, map2513, map2513, map2513, map2513,
map2513, map2513, map2513, map2513, map2513, map2513, map2514, map2514, map2514, map2514,
map2514, map2514, map2514, map2514, map2514, map2514, map2514, map2514, map2514, map2514,
map2514, map2515, map2515, map2515, map2515, map2515, map2515, map2515, map2515, map2515,
map2515, map2515, map2515, map2515, map2515, map2515, map2516, map2516, map2516,
map2516, map2516, map2516, map2516, map2516, map2516, map2516, map2516,
map2516, map2516, map2516, map2517, map2517, map2517, map2517, map2517, map2517,
map2517, map2517, map2517, map2517, map2517, map2517, map2517, map2517, map2517};

```

```

CloudExport[pm25gif, "gif", AnimationRepetitions -> Infinity, AnimationRate -> 0.0001]

```

```

Out[683]= CloudObject[https://www.wolframcloud.com/obj/6b6c4dea-8126-4baf-98a6-bf3cc72b167c]

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