

Traditional contract law principles and technological change: harmony or discordance?

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Features of a 'smart contract'

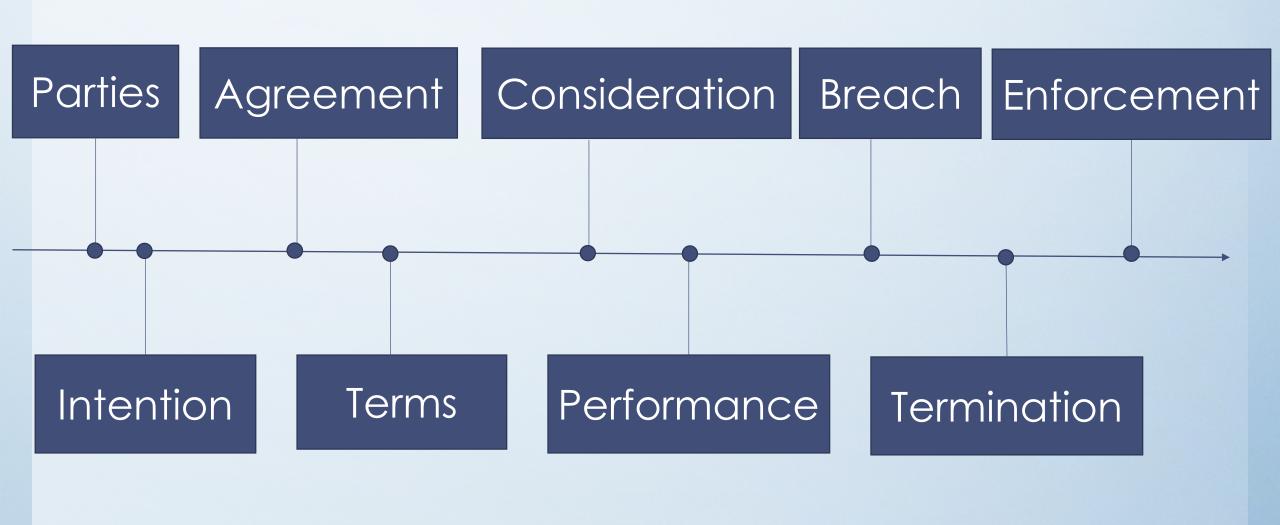
- A legal contract in the sense of a legally enforceable agreement
- All or part of the contract is reduced to computer code
- Once the code is switched on, the contract operates automatically and cannot be amended or stopped
- The contract continues to operate until its designated end date, or until it is breached
- Operates using blockchain technology

```
def composeimage(x, y, colr, radius, points, diminish):
   nofill()
   stroke()
    strokewidth( 0.05 )
   autoclosepath (False)
   count = int( radius * 1.3 )
   colr = colors.color( colr )
   grad = colors.gradient( colr.darken( 1.0 ), colr,
                colr.lighten(1.0).desaturate(0.4),
                steps = count )
   for i in range (count):
        stroke( grad[ 1 ] )
       a = 0.75 - 0.25 * float(1) / count
       colors.shadow( dx = 5, dy = 8, alpha = a, blur = 15)
       path = oval(x - radius + i * 0.5, y - radius + i * 0.5,
            radius * 2 - 1, radius * 2 - 1, draw = False )
       drawpath(brushpaint(path, points = int(points - i * 0.2),
            length = radius - i + random( count - i ) / 3,
            diminish = diminish ) )
```

Outline of presentation

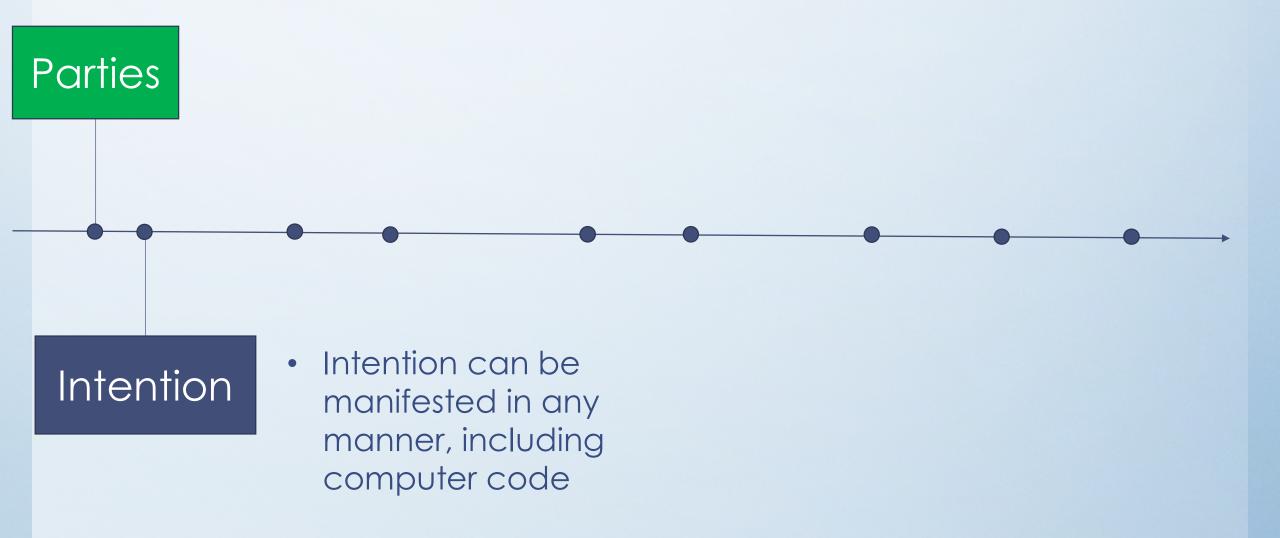
- 1. Overview of the foundational principles of contract law
- 2. How these principles apply to 'smart contracts'
- 3. Concluding observations

Foundational contract law principles

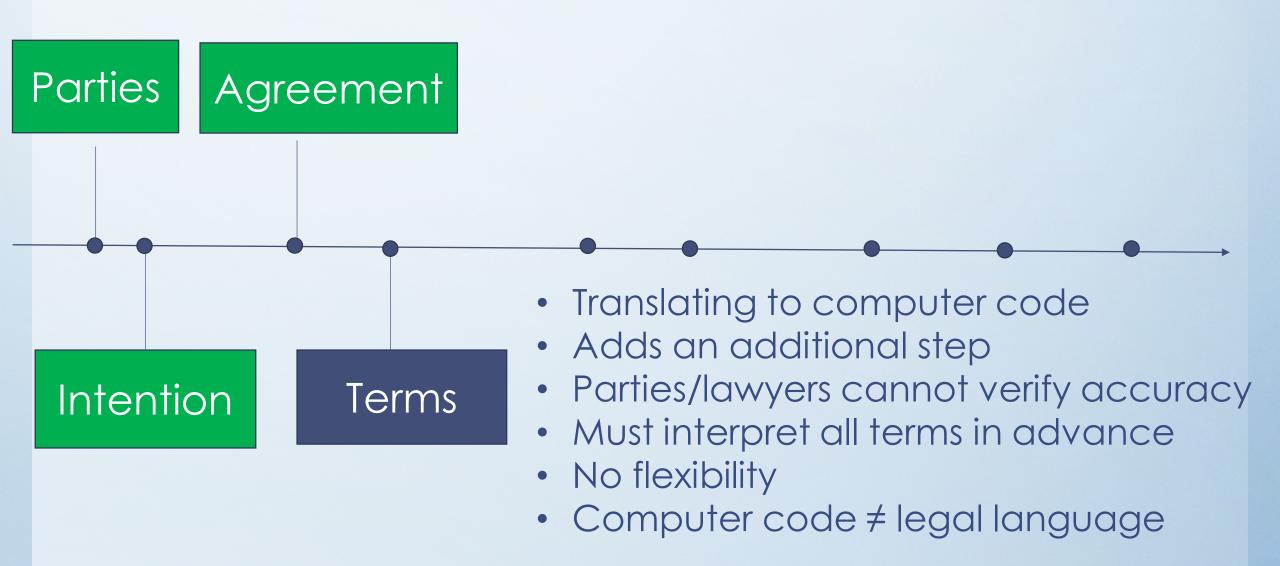


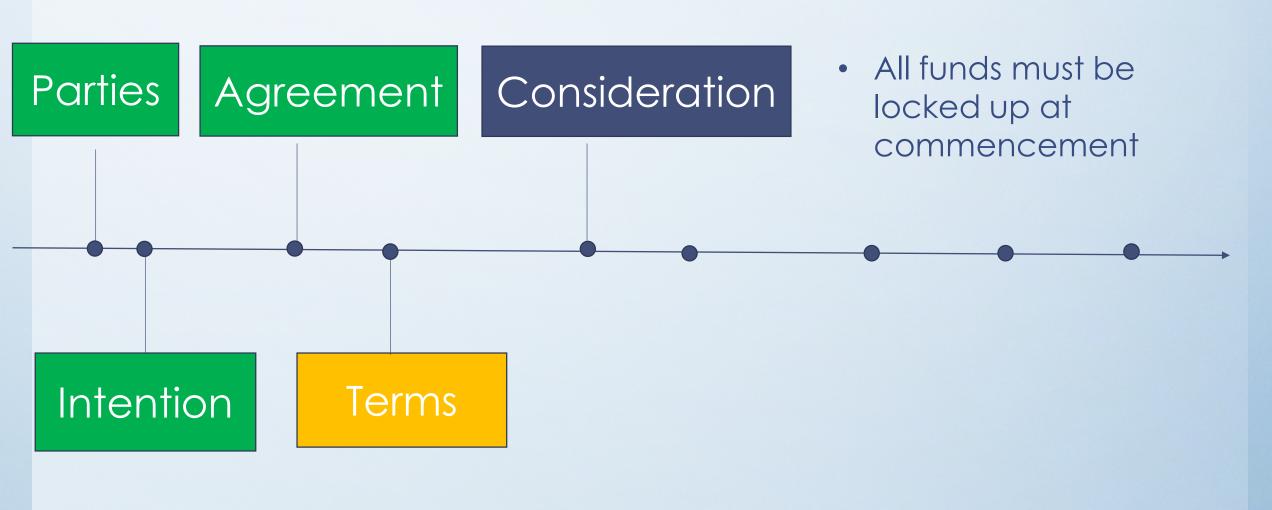
Parties

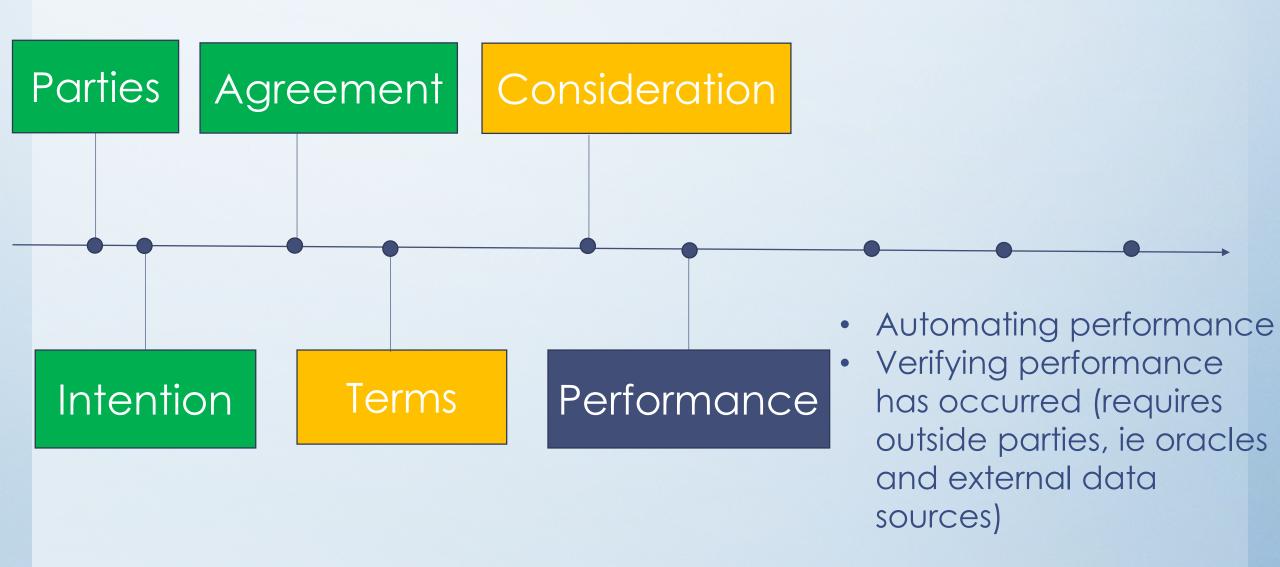
Contractual capacity ✓

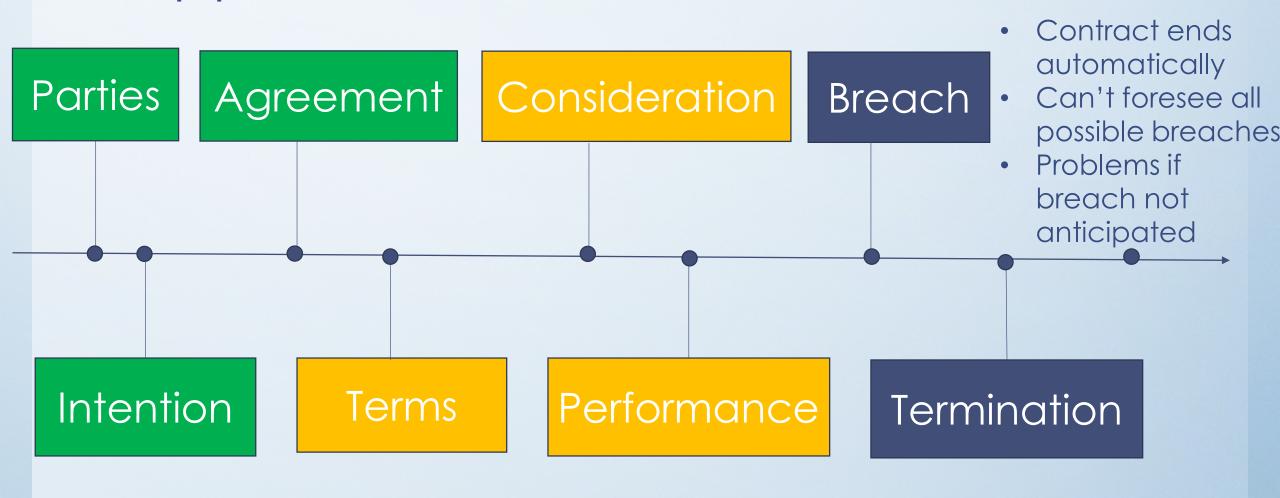


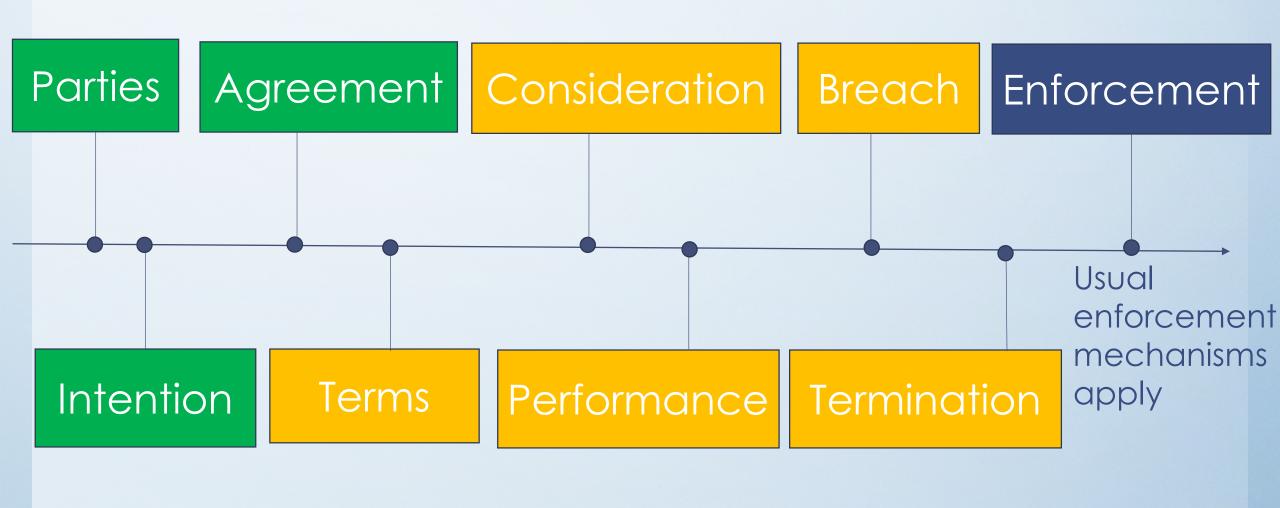












Concluding observations

- Smart contracts are compatible with foundational contract law principles – the two can work in 'harmony'
- Contract law is sufficiently flexible to withstand this technological change
- Smart contracts may be useful for short-term, one-off financial exchanges (eg interest rate swaps; futures trading)
- However, smart contracts are problematic for complex, longterm commercial agreements – costly, time consuming, inflexible

Thank you

